VOL. 5 JANUARY • 1948 NO. 1

# THE FOCAL SPOT

Fifth Annual

## DOMINION CONVENTION NUMBER

CANADIAN SOCIETY OF RADIOLOGICAL TECHNICIANS

SCIENTIA ET MORES

JOURNAL OF THE CANADIAN SOCIETY OF RADIOLOGICAL TECHNICIANS

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# News Items from the Provinces

## ALBERTA SOCIETY OF RADIOLOGICAL TECHNICIANS

### CALGARY BRANCH

We started off our Fall Season with a series of lectures on Physics given by Mr. Cecil Bridgeman of the Picker X-Ray Company, which were very well attended, and very well delivered. Following the Physics lectures we had a series on Anatomy, given by Dr. R. E. Pow, of the staff of the Colonel Belcher Hospital. These lectures were held every Monday evening. Our regular September meeting received a report of the Convention, and had the pleasure of seeing a film presented by Mr. Alf. Flower, of the Victor X-Ray Corporation.

We enjoyed a Hallowe'en Party at the Shaw's Farm. Games and contests were participated in, and there were prizes for costumes, which were won by Mrs. Margaret Shaw of the Calgary General Hospital, dressed as a Spanish Senorita, and Mr. Herbert M. Welch, as an early North-West Mounted Policeman minus the romance and beauty usually associated with these famous men.

Our November meeting was taken up with Local and Provincial nominations, and the December meeting took the form of our annual Christmas Party and Banquet, which was held at the Sky Room on the 17th of December, with an attendance of eighty, which included our Radiologists and their wives as guests, and friends of the Technicians. We were entertained by Dr. N. L. Smith at the piano; Mr. Bill Law, who sang two Scottish numbers, and to finish the entertainment programme there was an Operetta written by Miss Jo. Sutton and Mrs. Peggy Quint Dalpond, entitled "Radiologically Yours," and presented by Foss Boulton as the Radiologist, J. Allan as the Senior Technician, and Frances Shaw, Bert Welch and Margaret MacDonald as three little students, and Peggy Quint Dalphond as the patient. Music was arranged and played by Mrs. John Welch. This play was originally written as a parody on Gilbert and Sullivan's "Mikado," but had to be slightly changed on account of poorly trained opera singers. I must tell you about the ingenious control stand that was constructed by Mr. Jack McGie and Mr. Harry Buchanan, both of the Belcher Hospital. These two gentlemen were asked to make the props for the play, and believe me it was as big a surprise to the actors as it was to the audience when it all but exploded in the middle of the play. It turned out to be all wired with electricity, and had many batteries as well as a time clock, and really caused quite a stir. The banquet was convened by Miss Frances Shaw, who was ably assisted by Miss Phyllis Spooner, who arranged the table decorations and assisted at the Cocktail Bar.

We are all ready for a brand New Year, and our list of Officers for the coming year is as follows:

### PROVINCIAL OFFICERS, 1948

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Vice-President: Jack Bateman, Edmonton, Alberta.

Secretary-Treasurer: Cliff Godwin, Edmonton, Alberta.

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(Continued on page 4)

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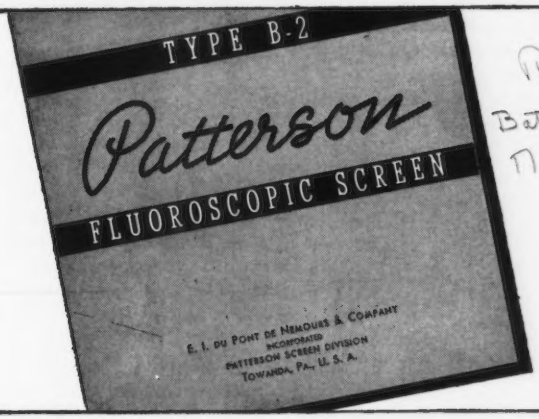


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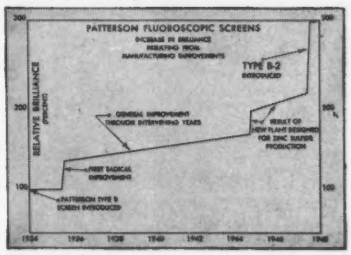


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DU PONT

BETTER THINGS FOR BETTER LIVING
*...THROUGH CHEMISTRY*

*(continued from page 2)*

Mr. H. S. Hoare has retired from active work in the x-ray field after fifty years' service. Congratulations on his length of service.

Mr. T. Kuzyk has been confined to the Edmonton General Hospital as a patient. We hope it won't be too long before he is pushing x-ray buttons again.

Mr. A. Ayres has left the Mobile X-ray Unit operated by the Department of Health and has joined the x-ray staff at the Charles Cassell Hospital in Edmonton.

We regret to report the death of Mr. Bob Murphy, a pioneer in the field, at Edmonton.

The Calgary Society extends heartiest greetings for the New Year to all Member Societies.

FRANCES SHAW, R.T.

## BRITISH COLUMBIA SOCIETY OF X-RAY TECHNICIANS

At the November meeting, held in St. Paul's Hospital, a fair turnout of members was present. Mr. Stirling read the paper on the Dorsal Spine which was given at the convention by Mr. Sid Johnson and very kindly lent to our society in order to give the information to our members. At this meeting the nominations for the executive for 1948 took place and the nominations were left open for one month before the election took place. Refreshments were served as usual following this meeting and all members apparently enjoyed meeting kindred spirits from different clinics in Vancouver and New Westminster. It was decided at this meeting to hold an Annual Meeting and Dance in December and a committee was formed to arrange this affair.

The December meeting as arranged took the form of a dance. This was held in Chris's Grill on Granville Street on December 18th. Before proceeding with the social part of the evening a short business meeting was held for the purpose of electing officers for 1948. Mrs. J. Blanchflower and Mrs. F. Monk very kindly agreed to act as scrutineers. The successful candidates are as follows:

President: Mr. S. Mel Smith, X-Ray Department, Shaughnessy Hospital.

Vice-President: Miss M. McMillan, X-Ray Department, St. Paul's Hospital.

Secretary: Miss Ruth Gabel, Hodgins Clinic, 710 Seymour St.

Treasurer: Miss Pat Sweeney, X-Ray Department, St. Paul's Hospital.

Student Representative: Mr. P. Bryden, X-Ray Department, Shaughnessy Hospital.

Immediately following the election Mr. Stirling turned the rest of the affair over to Mr. Mel Smith who was Chairman of the Social Committee. A very enjoyable evening then followed and did not break up until after midnight. Very excellent refreshments were furnished and all attending were unanimous in their compliments to the committee responsible.

### NOTES

Annual dues were paid up nearly one hundred per cent. in 1947 and we are hoping for a fully paid-up membership in 1948.

Please lend your support to the new executive by turning out to meetings. This is your way of showing that you are interested in the society.

Mr. Stirling retired from the presidency after holding the position for the past six years. He assures all members that during his term of office he missed no meetings and intends to keep that record intact.

—W. Q. STIRLING, R.T.,
Sub-Editor.

## MANITOBA SOCIETY OF X-RAY TECHNICIANS

The annual meeting of the Manitoba Society of X-Ray Technicians was held in the Board Room of the Winnipeg General Hospital, Friday, December 12th, 1947.

Miss Kreitz, technician at the St. Boniface Hospital, gave a very interesting and instructive paper on Pelvimetry.

It was unanimously decided that the KVP news should be continued under the able direction of Mr. J. J. Zaychley for the coming year.

The Secretary gave a very full annual report. He told of the growth of the society during the past few years. We now have a membership of 148.

The newly elected officers for the 1948 season are:

President:
Mr. J. J. Zaychley, City Health Department.

Vice-President:
Miss M. Steski, Winnipeg Clinic.

Secretary-Treasurer:
Miss M. Kreitz, St. Boniface Hospital.

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Focal Spot Sub-Editor:
Mrs. M. Carlson, Manitoba Clinic.

A sincere vote of thanks is extended to the President, Miss M. Steski, and her Executive for the good work they did in the past year in making our Society a success and best wishes are extended to our new President, Mr. J. A. Zaychley, and Officers for the 1948 season.

The first meeting of the New Year was held in the Board Room of the Winnipeg Hospital, Friday, January 9th, 1948, with a good turnout of around forty members. Our new President, Mr. Zachley, occupied the chair.

The members were very fortunate in having as our guest speaker Dr. Bruce Chown, Pathologist of the Children's and Grace Hospitals, Winnipeg, who gave us a very interesting paper on the Rh factor. He also showed us some excellent colored slides of several babies affected by disorder of the Rh factor. After the speech the members were given the opportunity to ask Dr. Chown questions. A hearty vote of thanks was extended to him.

The business session was concluded, after which an open dicussion was held and various questions dicussed. The meeting was then adjourned.

Many associates and friends across Canada will be sorry to learn that Dr. J. C. McMillan, Radiologist, is ill in the Winnipeg General Hospital. Our best wishes for a speedy recovery is extended to Dr. McMillan.

The officers and members of the Manitoba Society extend to all other Societies and their members the Season's Greetings.

—MILDRED CARLSON, R.T.,
Sub-Editor.

## QUEBEC SOCIETY OF X-RAY TECHNICIANS

Over sixty x-ray technicians attended the second quarterly meeting of the Province of Quebec Society of X-Ray Technicians, held at the Montreal General Hospital on Saturday, January 10th, 1948. Sister Margaret of Jesus, President of the Society, introduced the two speakers of the afternoon.

Dr. J. Gosselin, Honourary President, addressed the meeting in French and English. He talked on the importance and usefulness of societies such as ours, and how we, as a society, could improve the standards of x-ray technicians. Thanks to Dr. Gosselin were expressed by Miss A. Paquin, R.T., from Notre Dame Hospital.

Dr. Norman M. Brown, Radiologist at the Montreal General Hospital, spoke on "The Value of Certain Protections." Dr. Brown illustrated his lecture with x-ray films. We hope to have this paper published in The Focal Spot in the near future. Miss C. Cahoon, R.T., from Montreal Neurological Institute, expressed the thanks of the Society to Dr. Brown for an excellent paper.

The next meeting will be held on March 6th, 1948, the place to be announced at a later date.

—MARIAN J. WHEELER, R.T.,
Sub-Editor. *(continued on page 52)*

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# The Focal Spot

*Journal of the Canadian Society of Radiological Technicians*

*Volume 5* — *JANUARY 1948* — *Number 1*

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*Number 10 in a series*

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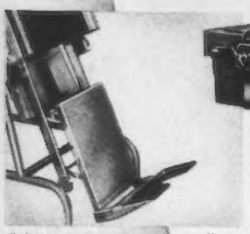

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The Focal Spot

*Journal of the Canadian Society of Radiological Technicians*

*Volume 5* *JANUARY 1948* *Number 1*

# Notes on Ventriculography

By J. A. L. WILLIAMS, M.S.R.
Sheffield, England

SO much has already been written about ventriculography that any further attempts at description may seem unnecessary. The standard positions have been detailed by Clark and various refinements to assist in demonstrating the third and fourth ventricles have been dealt with by Twining. Papers by Lysholm, whilst concerned more particularly with the radiological aspect, have been accompanied by film reproductions which serve to bring home to radiologists what successful technique in this field can achieve. There may still be room, however, for accounts of individual application of the principles advocated by various authorities, and in the following article the methods in use at the Sheffield Regional Neuro-Surgical Centre will be described, with special reference to the order in which the different views are taken. Such an article may be divided into two parts; first, a brief account of the principles involved, and secondly a more detailed description of technique.

## Part 1

Abnormal conditions affecting the ventricular system of the brain are many and varied, but those capable of radiographic demonstration fall, broadly speaking, into two groups; space-occupying lesions and inflammatory conditions. The radiographic appearances of such abnormalities, after replacement of a proportion of the cerebro-spinal fluid with air, can be placed under three main headings:

(a) Displacement of the ventricular system.
(b) Filling defects in the air-outlined ventricles.
(c) Dilitation of the system caused by a partial or complete block.

Combinations of any two of the foregoing, or of all three, will frequently be encountered.

The purpose of ventriculography is, firstly, to ascertain what abnormality of the ventricular system is present; secondly, to localise the lesion; and thirdly, to determine as far as possible its nature. Providing that all steps are taken to achieve the first and second objects, the third becomes an exclusively radiological matter, and as such falls outside the scope of this article.

If a spherical container is partly filled with liquid and partly with air, and then rotated into various positions, the air will always remain at the highest part. This elementary principle governs all manipulations in ventriculography, but it must be borne in mind

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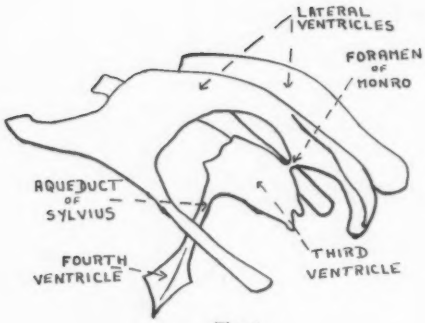


Fig. 1.
Sketch of ventricular system.

that the communicating parts of the ventricular system form a series of cavities far more complicated than a simple spherical chamber (Fig. 1). If the interventricular foramen (foramen of Monro) is patent, air will pass freely between the lateral ventricles when the patient's head is moved from one lateral position to the other, but the foramen may be completely, partially, or intermittently occluded by a lesion in its vicinity. The third ventricle can only be demonstrated if air can reach it from the lateral ventricals via the foramen of Monro, while the fourth ventricle presents particular difficulty as, when the head is so placed that this ventricle is uppermost, air can only reach it through the narrow passage of the aqueduct of Sylvius, and does not remain in the ventricle for any length of time if the three foramina communicating with the sub-arachnoid space are patent.

After the neurological surgeon has replaced part of the cerebro-spinal fluid with air, the problem facing the radiographer is to position the patient's head so that the air outlines the ventricular system in the vicinity of the suspected lesion. One method is to take a series of films with the patient so positioned that every part of the ventricular system is successively filled with air, and from these films build up a picture of the complete ventricular system. Another method is to ascertain as early as possible in the examination the approximate site of the lesion, and concentrate on bringing the air to this part when taking subsequent films. The second method forms the basis of the technique described in Part 2.

The principle adopted at this centre is to divide the various positions into four groups, to commence every examination with the first group described below, and invariably examine the films of one group before proceeding to take those of another.

The first group is restricted to films taken with the patient in the supine position; it demonstrates the anterior part of the lateral ventricles and possibly of the third; it also shows whether any displacement or dilatation is present, and comprises those views which can be taken without any loss of air and with the minimum of disturbance to the patient.

Films of the second group demonstrate the whole of each lateral ventricle, with special reference to the temporal horns.

Films of the third group show the posterior part of the ventricular system.

Films of the fourth group demonstrate the third and fourth ventricles and the aqueduct of Sylvius.

The reason for restricting radiographs to one group at a time is that the second, third, and fourth groups are held to be mutually prejudicial, e.g.,

turning the patient into the prone position before completing lateral views of the temporal horns may allow so much air to escape into the sub-arachnoid space that insufifcient is left for adequate demonstration of the region. Alternatively, the escaped air might reach the basal cisterns and brain surface and obscure the outline of the anterior part of the third ventricle. If lateral views are taken in what is subsequently diagnosed as a third ventricle or posterior fossa lesion, turning the patient into the lateral positions will not only have been unnecessary, but any air present in the third ventricle, as seen on the supine films, may pass into the lateral ventricles, instead of remaining available for direction, by manipulation of the head, into the posterior part of the third ventricle. The views taken in the first group, on the other hand, have no prejudicial efefct on subsequent films, and usually give sufficient information to indicate which part should next be investigated.

Part 2

At the commencement of every routine examination the patient is placed in the supine position with the head as for the normal fronto-occipital projection, and three films taken, antero-posterior, Towne (35°), and lateral, without any movement of the head. A consideration of the anatomy of the ventricular system will reveal that, with the head in this position, air can only reach the aqueduct of Sylvius and the fourth ventricle in the case of an almost complete removal of cerebro-spinal fluid (Fig. 2). As the communications between the ventricles and the sub-arachnoid space consist of the foramen of Magendie and the foramina of Lushka, which are all three located in the fourth ventricle, limiting the films to those of the first group, that is to those in the supine position, will ensure that all available air is retained. Scrutiny of these films usually discloses one of the following conditions:

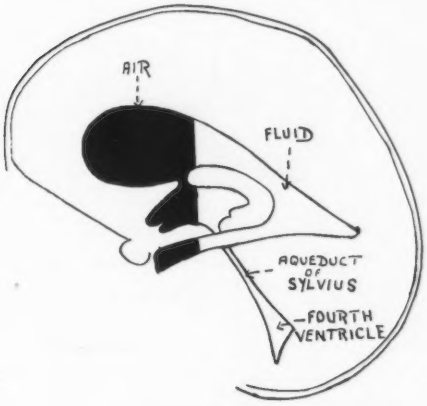


Fig. 2.
Lateral view (head supine).

1. Lateral displacement of the ventricular system, accompanied by

(a) Depression of the superior border of the affected lateral ventricle, with narrowing of the other lateral ventricle from side to side.

(b) A filling defect in such a position that the temporal region can be excluded.

(c) No filling defect.

(d) A filling defect in such a position that a temporal horn may be involved.

(e) A filling defect in the anterior part of the third ventricle; such a defect may be present in a symmetrically dilated ventricular system.

2. Symmetrical dilatation to the ventricular system, sometimes confined to the lateral ventricles.

Let us now deal in greater detail with the five sub-headings of Item 1—Lateral displacement of the ventricular system:

(1a) If the ventricular system is displaced to one side, and on the other side the anterior part of the lateral ventricle is depressed, a parasagittal lesion is suspected (Fig. 3). To confirm this the patient is placed in the erect position and further antero-posterior and lateral views taken. Fig. 4 shows the appearance of such a lesion on an erect lateral film.

(1b) A filling defect caused by a frontal lobe tumour, as shown in Figs. 5a and 5b, is often accurately localized on the evidence of the first three films alone. Tumours further back, such as those in the upper parietal region, will require further investigation, in which case the next films taken are right and left laterals. The first one is with the

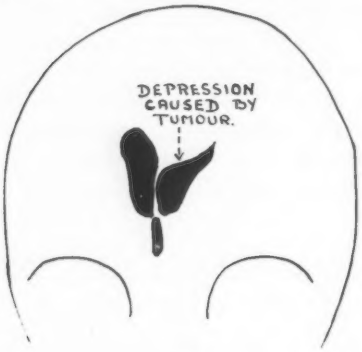


Fig. 3.
Depression of lateral ventricle caused by para-sagittal lesion; antero-posterior view (head supine).

Fig. 5a.
Filling defect and lateral displacement caused by frontal tumour, antero-posterior view (head supine).

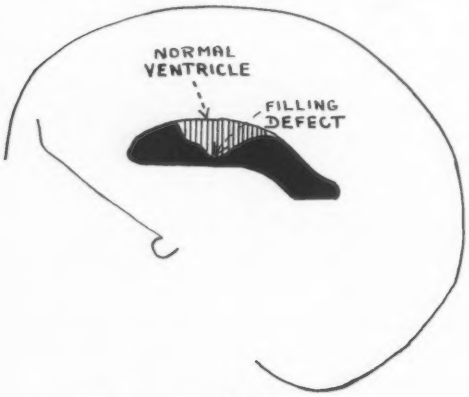


Fig. 4.
Filling defect caused by para-sagittal lesion; lateral view (head erect).

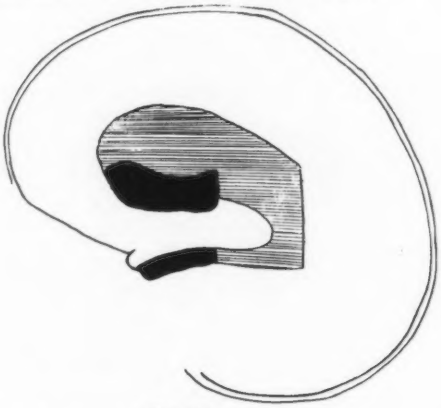

Fig. 5b.
Filling defect and lateral displacement caused by frontal tumour; lateral view (head supine).

affected side uppermost, and after the second lateral the patient is turned back into this position and kept there during the development of the films. Air sometimes passes very slowly into the ventricle on the affected side, and the foregoing procedure, which is also adopted when investigating the remaining parts of the lateral ventricles, is designed to assist filling in readiness for a further film should this be found necessary. After satisfactory lateral views have been obtained, the patient is turned slowly into the prone position and three further films, postero-anterior, reverse Towne, and lateral (central ray horizontal) are taken. In this type of case the lateral ventricles, excluding the temporal horns, are the only parts of the system being investigated, and the three films in the prone position complete the examination.

Fig. 6.
Lateral displacement and angulation caused by temporal lobe lesion; antero-posterior view (head supine).

(1c) and (1d) If a temporal lesion is suspected (Fig. 6), the second group of films again includes right and left laterals, but these are accompanied by Towne and reverse Towne projections taken with the head in the lateral positions. These views give further information about the temporal horns (Fig. 7). A case in which lateral displacement, without any filling defect, is seen on the supine films might show normal temporal horns and a filling defect posteriorly; such a lesion would be finally localized after scrutiny of the postero-anterior, reverse Towne, and lateral films, which again complete the series.

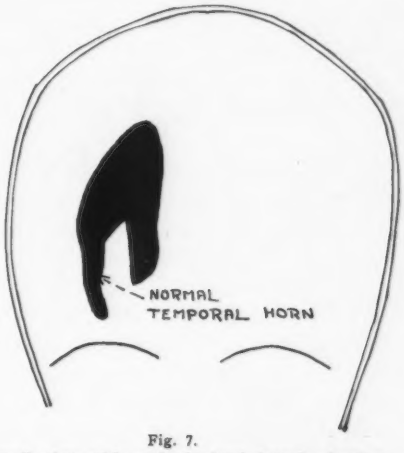


Fig. 7.
"Towne" view with patient's head lateral, showing lateral ventricle with temporal horn filled.

(1e) If a deformity of the third ventricle is caused, for example, by a cranio-pharyngioma, no further films may be necessary, as such a lesion may result in a clearly defined filling defect in the anterior border, which is frequently well visualized in a lateral view taken with the patient supine (Fig. 8). Other tumours affecting the third ventricle are discussed below.

2. Symmetrical dilatation of the ventricular system may be due to a tumour in the third ventricle, or may be caused by one of the tumours which usually cause filling defects in the posterior part of the ventricle. In such cases the technique followed depends on the

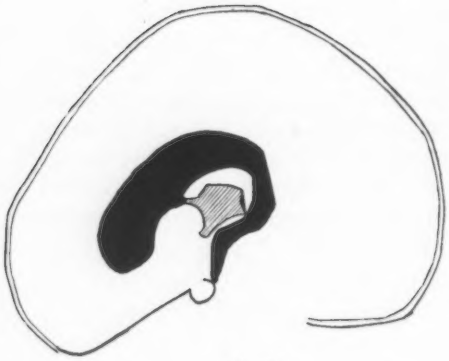

Fig. 8.
Filling defect of anterior part of third ventricle; lateral view (head supine).

degree of filling of the third ventricle as seen on the first films. If little or no air has reached it, Twining's third position is adopted, i.e., patient supine, head lowered and, if necessary, the x-ray couch tilted until the orbito-meatal line is horizontal. A lateral film in this position is expected to show air outlining the whole of the third ventricle and any filling defect which may be present. A tumour completely blocking the foramen of Monro will, of course, prevent any air reaching the third ventricle no matter what positioning is adopted (Figs. 9a and 9b).

Fig. 9a.
Dilated lateral ventricles caused by blocked foramen of Munro antero-posterior view (head supine).

If good filling of the third ventricle has been obtained in the supine position, the following procedure is carried out. The patient is turned into the prone position and the head lowered until the orbito-meatal line makes an angle of fifteen degrees with the vertical. If this is done expeditiously, the air formerly present in the anterior end of the third ventricle will now outline

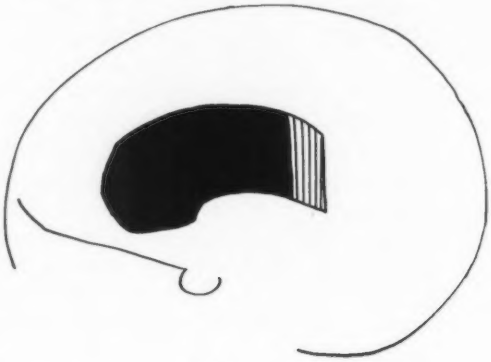

Fig. 9b.
Dilated lateral ventricles caused by blocked foramen of Munro; lateral view (head supine).

Fig. 10a.
Dilated ventricular system caused by tumour behnid third ventricle; antero-posterior view (head supine).

the posterior part (Figs. 10a, 10b and 10c). A lateral film is taken, followed by a reverse Towne view; the head is then turned into Twining's fifth position (Fig. 11) and a film taken. Next,

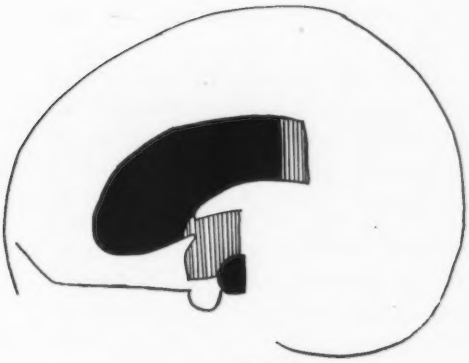

Fig. 10b.
Dilated ventricular system caused by tumour behind third ventricle; lateral view (head supine).

Fig. 10c.
Dilated ventricular system caused by tumour behind third ventricle, with filling defect in posterior margin of third ventricle; lateral view (head prone).

the patient is returned to the prone posiion and a second lateral film obtained, as the movement of the head prior to the penultimate film may have induced more air to pass into the aqueduct of Sylvius. These four films are intended to demonstrate the posterior part of the third ventricle, together with the aqueduct of Sylvius and the fourth ventricle. Visualization of the aqueduct of Sylvius is desirable when studying the posterior part of the third ventricle as its position faciliates the

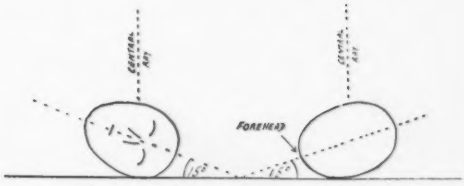


Fig. 11.
Twining's fifth position.

diagnosis of the nature of the lesion causing the deformity, and, as a general rule, the foregoing procedure is also followed in those cases in which it has been necessary to make use of Twining's third position after seeing the supine films.

Dilatation of the ventricular system can, of course, be present without any lesion affecting the third ventricle,

Fig. 12a.
Lateral view (head prone), showing the fourth ventricle obscured by the petrous bones.

some of the more probable causes being cerebellar tumours, tumours in the fourth ventricle, and inflammatory conditioning occluding the basal foramina. In such cases the four views described in the preceding paragraph, i.e., lateral, reverse Towne, Twining fifth position, and a further lateral, are invariably taken, and are again preceded by a film in Twining's third position if there is poor filling of the third ventricle on

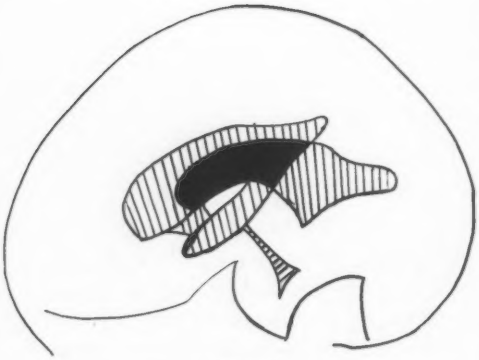

Fig. 12b.
View in "Twining's fifth position", showing the fourth ventricle clear of petrous bones.

the supine films. These films are usually found sufficient to demonstrate such appearances as kinked, stenosed, or dilated aqueduct of Sylvius, dilated fourth ventricle, etc. (Figs. 12a and 12b).

The technique outlined above has been found adequate for demonstrating lesions affecting any part of the ventricular system with the minimum of inconvenience to the patient. It should be borne in mind that the radiographic evidence must be as conclusive as possible, therefore all deviations from the normal should be shown on at least two, and preferable three, films, and unilateral deformities should, whenever practicable, be accompanied by views of the normal side for comparison.

ACKNOWLEDGMENT

My thanks are due to Mr. James Hardman and to Dr. Thomas Lodge for their extremely helpful criticisms and suggestions.

# The Advantage of Multiple Positions in Injuries to Bones

By E. M. CRAWFORD, M.D.
Radiologist, Homoeopathic Hospital
Montreal, Que.

IT has been a traditional method, dating from the early days of x-ray examinations, that bones should be taken in two directions at right angles to one anoher. This technical practice resulted from the experience that if a bone was only taken in one direction, quite frequently no fracture was seen, and that a second view taken at right angles to the direction of the previous view, showed a fracture quite clearly. You will note in this slide, that in the antero-posterior direction the fracture of the lower end of the radius is not visible, whereas in the lateral direction, it is distinctly visible. This method of taking two views of bones is still regarded in many hospitals as sufficient for a routine examination.

The persistence of pain, however, following an injury to a bone in which only two views have been taken, has awakened us to the necessity of trying to find a cause for this pain. It has been our experience that in injuries to bones — particularly in the region of a joint — a careful radiographic examination is necessary and films should be taken in several directions for the first examination. This procedure has often demonstrated fractures that did not show in the traditional antero-posterior and direct lateral views.

The next slide that I shall show you will illustrate the positions that we use with reference to the ankle join. These films have been taken by Mr. Gordon Greenfield and I am indebted to him for the excellence of the technique.*

The four positions which you see are all taken on an 11 x 14 film. This can be done quite rapidly and does not require as much time as appears on first sight. The next slide will show the same method applied to the wrist joint. It is also becoming more and more a standard procedure to take several views in different directions of many parts of the body, especially where the thickness of that part is such that a pathological lesion might be obscured by the overlying tissues.

As technicians you must recognize this "thickness" factor, for a fracture can be obscured by the thickness of the bone in which it occurs. This is largely due to the fact that the entire thickness of the bone is projected on to the thin surface of the film and that in consequence it is quite possible, for instance, for the detail of the structure in the anterior and middle portions of any bone to obscure a lesion in the posterior portion. For instance, when one considers the bones of the ankle

Presented at a meeting of the Quebec Society of X-Ray Technicians.

* Unfortunately the reproductions do not do justice to the radiographs.—Ed.

joint, one must consider that the tibia and fibula are expanded at their lower ends to something of this order: the fibula is approximately one inch wide and one inch thick; the tibia is about two inches wide and one and one-half inches thcik, and the medial malleolus of the tibia is about half an inch wide and one inch thick; the astragalus, however, is one and a half inches in width and two inches in thickness. It is therefore quite easy to understand how a lesion such as a fracture involving a portion of one of these bones, or

even osteomyelitis, might not be evident if only the two traditional views are taken.

It will be appreciated that the positions which I have illustrated by the lantern slides of the ankle and wrist joints need not all be repeated in x-ray films taken subsequent to the setting of a fracture. As a matter of fact, at least two of the positions so distort the picture of the ankle joint that these positions would give a false impression of the position of the fragments of the fracture.

## ADVANTAGE OF MULTIPLE POSITIONS

In any busy x-ray department the amount of work a technician is called upon to do is liable to interfere with the quality of that work, and in consequence we must think constantly what the results are in any injury to a bone. I am not advocating that the x-ray technician assume responsibility for a diagnosis, but it is within your field to think in terms of the results of any injury and do your best to show such a lesion — not only with proper exposure technique, but with such positions that will permit the radiologist to see, as it were, all around the part of the body that you have taken. Such an effort is not without its compensations. You should share in the satisfaction that results from finding a fracture which was not evident in the traditional two views. The extra effort of radiographing the additional positions is entirely upon the technician, and it is hardly fair in these busy days that any one should be asked to assume additional effort without good and sufficient reason. It has been our experience that the satisfaction that one gets from discovering such a lesion amply repays one for the extra effort. It goes without saying that the demonstration of any lesion shown by taking multiple positions will be equally appreciated by the attending physician or surgeon, and even by the patient.

* ★ *

**IMPORTANT ANNOUNCEMENT RE RESOLUTIONS**

**The date of the next Annual Meeting has been set for June 17th, 18th and 19th, at the Chateau Frontenac, Quebec City.**

**When, at the last convention, it was decided to change the date of our Annual Meeting to June, the primary reason given was that it would enable the Member Societies to give consideration, during the Winter months, to any matters they wished to bring before the next Annual Meeting. I wish, therefore, to draw attention to the fact that we have less than four months before our next Annual Meeting, and only six weeks in which to get our resolutions published in the April issue of "The FOCAL SPOT." This question of the lack of publication of resolutions prior to the Annual Meeting has been a matter of considerable concern to your Directors, and especially to your Resolutions Committee.**

**Criticism has been made in reference to resolutions being presented at the Annual Meeting, of which the Official Delegates had no previous knowledge. To obviate such a situation this year, your Resolutions Committee wish to stress that only under exceptional circumstances will consideration be given to resolutions received too late for publication in the April issue of "The FOCAL SPOT."**

**Please note that resolutions should be typed in triplicate.**

**H. M. Welch, R.T.,**
**Chairman, Resolutions Committee,**
**Director, C.S.R.T.**

**Col. Belcher Hospital,**
**Calgary.**

# The Focal Spot

*Journal of the Canadian Society of Radiological Technicians*

EDITOR
LESLIE J. CARTWRIGHT, R.T.

*Volume 5* — *JANUARY 1948* — *Number 1*

*"All our ambitions should be devoted to a faithful fulfilment of duties towards others as well as to ourselves."—Roentgen.*

## Editorial Comment

THE Fifth Dominion Convention held last September at Saskatoon must have set an all-time high for official activity with ten Business Meetings, comprising six General Meetings, two meetings of Executive and Delegates, and two Directors' meetings.

The Delegates and members nobly arrived at meetings at 8.30 in the morning although in at least one instance they had been attending a meeting the night before which did not terminate till after midnight.

Much of the work done at this Fifth General Meeting was the result of resolutions passed at the Fourth General Meeting a year previous, necessitating various changes in the Constitution before submitting same to the Secretary of State for confirmation.

A condensation of the Minutes is printed elsewhere in this issue but for the benefit of those who like their news pre-digested we have endeavoured to present the highlights in the following paragraphs:

### SOME OF THE CONSTITUTIONAL CHANGES

Provision is now made for the acceptance into the C.S.R.T. of Associate Members. (See page 40.)

C.S.R.T. Directors will in future be nominated as follows:

One Director nominated by the Canadian Medical Association.
One Director nominated by the Canadian Association of Radiologists.
One Director nominated by each Member-Society. (See page 41.)

The President and Vice-President will be elected from the Directors by the Delegates at the Annual Meeting for a period of one year only, unless re-elected.

The Secretary-Treasurer will be appointed by the Board of Directors. (See page 41.)

This means that we have now got away from the restriction of a candidate for President being obliged to serve a term as Secretary-Treasurer. Also the Secretary-Treasurer will be a person picked by the Board of Directors as being particularly suitable for that position and will not be restricted to only one year in office. This position involves a knowledge of so many details of the Society's activities that it can readily be seen that it is a great advantage to stay in it longer than one year.

The time and place of the Annual Meeting will be decided annually. We take this to mean that the convention city need not necessarily be in the city or province of the President if circumstances indicate that another place would be more suitable. (See pages 42, 49 and 50.)

### INCREASE IN MEMBERSHIP FEES PASSED BY MEETING

This will doubtless prove to be the most controversial of the changes sanctioned by the Annual General Meeting and yet if it is considered in a reasonable manner the wonder is not that the fees have been raised but that the Dominion Society has managed to carry on as long as it has done on a revenue consisting of ten dollars from each of eight Member-Societies and one dollar per head from the members of those Societies. If it had not been for outside assistance we doubt if it could have been done. The increase of two dollars for Ordinary Members, making the fee three dollars instead of one dollar, is, of course, the most far-reaching, but one cannot but feel that the extra two dollars per year from each member is not so serious as it might appear at

first impact, particularly when this small sum is weighed against the increased strength the additional sum received will impart to the Dominion body. (See page 42.)

Subject to the approval of the Secretary of State, the new rates will be as follows:

| | |
|---|---|
| Member-Society Fee | $10.00 |
| Members of the Canadian Association of Radiologists | $ 5.00 |
| Ordinary Members (qualified members of a Member-Society) | $ 3.00 |
| Ordinary Members (not members of a Member-Society) | $10.00 |
| Associate Members | $ 5.00 |

The Board of Directors has notified Secretaries of Member-Societies that these rates will not be effective until January, 1949.

## EASTERN AND WESTERN MARKING BOARDS TO BE FORMED

With the constantly increasing number of students taking examination for Registration the Board of Examiners has had difficulty in marking papers quickly and consequently a good deal of dissatisfaction has been expressed at the delay in announcment of examination results. It was therefore proposed at the Convention that two accessory boards should be formed for the purpose of marking the papers, the examination papers themselves still being set by the Central Board. The details have not yet been worked out but have been made the responsibility of a committee, appointed for that specific purpose, by the Board of Directors. This committee has yet to be appointed. (See page 47.)

## APPLICANTS FOR REGISTRATION MUST BE 21 YEARS OF AGE

A resolution to this effect was passed at the Annual Meeting. This, of course, would still allow a student to start at 19 or earlier and put in two years training before applying for examination and registration. (See page 44.)

## ADMISSION TO C.S.R.T. OF BRITISH M.S.R.'s AND U.S. R.T.'s WITHOUT FURTHER EXAMINATION REJECTED

The matter of admitting members of the British and U.S. Societies without taking the C.S.R.T.examination was discussed at considerable length. It seemed probable that this would have been agreed to if reciprocal arrangements were offered by the British Society and the A.S.X.T., but as nothing had been done along these lines the resolution was defeated at the present time. (See page 48.)

## COMMITTEE ON LAWS PRODUCES ITS FIRST WORK

This committee was organized following its inception at the Fourth General Meeting a year ago. Since then it has done a lot of intensive work on co-relating and polishing up the various proposals by the Board of Directors, the Examining Board and the membership in connection with examination regulations. At the meeting in Saskatoon the Committee on Laws presented its first work and considerable commendation is due to the Committee for the excellent job they have made of it. Much of this work has already been printed in the April 1947 Focal Spot (page 94) and was presented for official confirmation at the General Meeting. It is therefore unnecessary to enumerate the details again here. (See pages 44, 47.)

## EXAMINATION DATE—PROVISION FOR EMERGENCIES

In order to meet possible emergencies which might make it impossible for a candidate to be present on the date set for examination, a resolution was passed permitting the examination for the whole group to be held one day earlier or one day later than the date set by the Examining Board. (See pages 44 and 50.)

## SPECIAL EXAMINATIONS FOR THERAPY TECHNICIANS DEBATED

After considerable discussion this resolution was sent back to the Resolutions Committee for further study. (See page 49.)

## EDITORIAL COMMENT

### JUNE SET AS MONTH FOR ANNUAL CONVENTION

A resolution was passed that the Annual Meeting be held not later than the last week of June in each year. There are many pros and cons to this matter. The Editor's personal feeling is that x-ray departments are very busy in June and that it is easier to get away in July or August. However, not later than June is the official verdict. (See page 49.)

### PULMOTOR USED ON ANNUITY SCHEME

A proposal that the C.S.R.T. investigate the possibility of an annuity scheme was made over a year ago but seems to have been snowed under by more pressing business. Mr. H .M. Welch revived it in the nick of time with a resolution that a committee be formed to look into this matter and present a full report at the next General Meeting. This was approved and the committee is being formed. (See page 49.)

### WORKING HOURS

The attention of the Executive was drawn to the fact that some technicians are working longer hours and getting shorter vacations than recommended in the International Code. The Secretary was therefore instructed to write to the Dominion Government drawing attention to the recommendation of the International Congress of Radiology regarding working conditions of x-ray technicians. (See page 51.)

### STUDENT TRAINING

Following the presentation of a report on student training by Dr. A. C. Singleton and the detailed analysis of replies to a questionnaire drawn up by Dr. E. A. Petrie and sent to Radiologists throughout the Dominion, Dr. Singleton drew attention to the outstanding work being done by Dr. Desmond T.Burke at Christie Street Hospital, Toronto. An invitation is being sent to Dr. Burke and Dr. A. E. Perry asking them to serve on the Student Training Committee. (See page 51.)

### C.S.R.T. REGISTRY TO BE PUBLISHED IN THE FOCAL SPOT

It was resolved that a Roster of C.S.R.T. members should be published annually in The Focal Spot together with year of joining the Society. (See page 50.)

### COMMITTEE FORMED TO PREPARE C.S.R.T. LAPEL PINS

A resolution regarding adoption of a special cap for female technicians was rejected, but it was decided to proceed with the matter of a lapel pin and a committee now has the matter in hand. (See pages 44, 48, 50.)

Mr. Herbert M. Welch particularly stressed his request that Delegates take back to their societies the message that he wishes they would communicate with him more often when problems arise.

Three appointments were made to various vacancies. Mr. P. P. Ghent was appointed to the office of Historian following the resignation of Sister Rose Agnes who is now Secretary to the Board of Examiners. Mr. C. J. Bodle was appointed to the Examining Board and Mr. Gore to the Resolutions Committee.

Attention of officers and members is particularly drawn to an announcement elsewhere in this issue by Mr. H. M. Welch, Chairman of the Resolutions Committee, regarding the necessity of forwarding resolutions for consideration at the 1948 General Meeting in time for them to be published in the April Focal Spot. This means that they should reach the Resolutions Committee not later than the beginning of March.

An invitation has been received from the Texas Society of X-Ray Technicians (Miss Mary F. Lee, President, 1221 Medical Arts Building, Dallas) for all Canadian technicians to attend the Society's Convention at Dallas in the week of April 22nd, 1948.

Don't forget that the columns of The Focal Spot are open for your correspondence. Some years ago we made an attempt to start a correspondence column without much success. Anything of interest to your fellow-technicians makes good material for correspondence whether it is a criticism or suggestion about a method of technique or about the affairs of the Society.

# President's Address

Reverend Sisters, Honoured Guests,
Ladies and Gentlemen:

IT is with pride and very great pleasure that I welcome you to this, the Fifth Annual General Meeting of our Society. This feeling is enhanced by the good fortune which permits me to extend that welcome to you in the city of Saskatoon, which was my home for so many years.

Your Convention Committee is to be congratulated upon the preparation of a very comprehensive programme, embracing as it does matters both educational and informative; believing in the old adage: "All work and no joy, makes Jack a dull boy" you will find also that arrangements for your pleasure have not been neglected by that Committee.

In view of the Dominion-wide interest being expressed in connection with health services and hospitalization problems, and the manner in which they are being dealt with in Saskatchewan particularly, it was thought advisable that we should attempt to bring to you an authoritative word picture of what such plans embrace. An address on this subject will follow the banquet on Friday; the speaker: Dr. F. D. Mott, Chairman of the Health Service Planning Commission.

It is to be noted that throughout this past year there has been a marked increase in the number and scope of educational meetings held by local groups of technicians throughout Canada. This is as it should be, denoting a healthy interest in all that pertains to our work.

Our sincere thanks as a Society is extended to all those who have given of their time and talent to prepare and deliver papers and lectures at such meetings, and also to the medical and administrative staffs of hospitals and clinics for permission to use room space and facilities for such meetings.

All Official Delegates are requested to convey this message of thanks to those responsible for such assistance.

Since you are to receive reports from the Secretary-Treasurer and from the representatives of the various Boards and Committees by whom the business of the Society has been conducted since the last General Meeting, I shall not attempt any resume of such work.

This, however, I must say: All the members of such Boards and Committees deserve and should receive an expression of our appreciation for the creditable manner in which they have attempted to conduct those affairs.

Your Board of Directors has enjoyed the spirit of co-operation made evident by the response to demands upon the time of those undertaking the work involved, and it may be fairly said that as a result of that work the prestige of the Society is higher than ever before.

We appreciate particularly the assistance given to us by those Radiologists who have accepted positions on our Boards and Committees, and you are urged to give your earnest consideration to any recommendations which might be embodied in their reports specifically, and in all reports generally. Having considered such recommendations, every effort should be made to carry to completion all ideas embodied therein which would appear to be of value to the future welfare of the Society and all its members.

We must never be satisfied with static conditions.

This does not necessarily mean the total destruction of what have been established as sound principles of administration. Everything now existing which can be shown to have value ought to be retained. That which is outworn or outmoded should be discarded. That attitude, I submit, is as true in the conduct of the affairs of our Society as it is in our daily work or in any other aspect of our life.

The average individual can conceive progress, but it is difficult to conceive perfection. There is now and always will be much work to be done. There can be no excuse for indifference or complacency. Nor is there any room for destructive criticism. This is a time to build, not to destroy. There must be a real sense of responsibility — personal responsibility, on the part of officers and members alike.

It will be necessary, of course, to guard against serious blunders. It is your Presi-

dent's belief that control is the essence of success in this case. Control in the form of well thought-out regulations. There will be difficulties encountered, and some errors will be made, but what worthwhile progress was ever made without difficulty, and surely we should not let the fear of making an occasional error deter us from attempting to make what appear to be necessary changes.

Should you wonder just why these thoughts are being stressed at this particular time: permit me to point out that responsible governing bodies are, in view of the increasing demands for health services, taking an ever-increasing interest in all matters connected with such services. We, as X-ray technicians, are bound to be fitted into the over-all picture, whatever that picture may turn out to be, and we should perhaps endeavour to anticipate, if possible, the desires of those whose concern will always be with our technical abilities, our sense of responsibility and our desire to serve in an ethical manner.

We must therefore continue to prove our worthiness to such groups as the Canadian Medical Association, the Canadian Association of Radiologists and the Canadian Hospital Council.

It is respectfully suggested therefore, that in an effort to further prove our desire to function as a Society in the fullest co-operation with these bodies, we attempt to establish an Advisory Board; such a Board to be composed of a representative from each of these organizations and to be called as consultants by your own Board of Directors whenever we feel, or anticipate, the need of advice as to procedure under any given set of circumstances.

Not only that, but such a Board would be in a position permitting them to convey to us, following their discussion of same, any information which would tend to keep us functioning as a Society, in a manner acceptable alike to Physicians, Radiologists and Hospital Administrators.

It ought not to be inferred that this suggested Advisory Board is put forward as a prospective replacement of those representatives of the Canadian Medical Association and of the Canadian Association of Radiologists now serving on our Board of Directors. Not at all! Your President feels that those good relationships which have existed in the past between our Society and those two organizations and which he would wish to continue, are largely the result of such representation, and he could wish for no better understanding of our problems, and no better spirit of co-operation than has been shown by these representatives in the past.

In conclusion, permit me to repeat part of my message to the Technicians of Regina and district when they so kindly asked me to address them some time ago:

"You are the people who will shortly be called upon to administer the affairs of your local societies and, eventually, of this, the Canadian Society. Prepare yourselves, therefore, for this work, by studying the accepted practices in force whereby such administrative duties are carried out. Thus you may be ready to accept a full share of responsibility when you are called upon to serve on committees or to fill executive positions. To accept an office without at least some knowledge of working methods and procedure, or lacking a desire to make a very sincere attempt to fill the position adequately, can only lead to delays, disappointments and an unhappy and dissatisfied membership.

On the other hand, you may derive a great deal of satisfaction, even happiness, out of a job that is well done. To know that you have a part, no matter how small, in the building of what is actually your own Society; help to build something of which you may be justly proud and then work to keep it that way."

For the immediate present we would hope that the various educational presentations and all the deliberations of the Fifth Annual General Meeting will lead us a little further toward that goal which is the fundamental aim of our organization: to make us better technicians, worthy to take our place beside any who serve in a technical way to assist physicians toward the diagnosis and treatment of the sick and injured.

To have acted as your President during the past year has been a great honour and has, if anything, strengthened my resolve to continue to play my full part in whatever the membership or the Board of Directors would wish me to undertake.

P. E. HUNT, President.

# Report of the Secretary-Treasurer

Mr. President, Members of the Board of Directors, Ladies and Gentlemen:

It is my privilege to report for the year 1946-47. Looking back over the past year, it may seem to our members that it has been a somewhat quiet and uneventful year, but I can assure you it has been far from that. Our President, Mr. P. E. Hunt, has worked unceasingly throughout the year and as Secretary-Treasurer, I am in a position to know something of what a colossal amount of work he has accomplished on behalf of our organization. He has my greatest esteem and respect for his efforts in this field.

Our Society is still young and in need of careful and understanding guidance. Some of the original by-laws, suitable enough for our organization period, have now to be changed somewhat or replaced by new ones. Some of this work has been done and some is in process of being accomplished. Committes which have been established in the past are now running smoothly; new committees and offices created a year ago are coming along well. For instance, most of you know that one of our newly created offices was that of Registrar, of which we were in great need. This task is being very ably handled by Miss Creelman and I know that she has worked hard and conscientiously towards getting her office working to the satisfaction of all. A rather lengthy delay was experienced in sending out membership cards and certificates, which is much regretted but, as explained in the Registrar's Report, this was due to circumstances largely beyond our control. We welcome constructive criticism and your Directors are always ready to listen to any such suggestions and when desirable to incorporate them into the structure of the Society with a view to making this Canadian Society of ours as smooth working as possible and second to none in the world of Radiological Technicians — no mean undertaking when you consider the geography of Canada.

Many of you receiving ballot sheets this year will have found them rather complicated and hard to understand. Your Executive accepts the responsibility for this and will propose that leniency be exercised by the Scrutineers in the case of ballots inadvertently spoiled due to this ambiguity. We would, however, point out that this condition might have been avoided had Member-Societies sent in their nominations earlier, thus giving more time for the preparation of the ballot sheets. I would like to repeat and emphasize the request of Mrs. Mary Cameron on this subject in her report as Secretary-Treasurer of the year 1945. It is this: "That in future, at January meetings, all Provincial Societies should decide upon their nominations in order that they will be forwarded immediately when nominations are called for, in order that circulation of the ballot sheets should not be delayed."

I might add that it would not only expedite the circulation of ballot sheets, but would also help your Member-Society Executives in that they could get the required number of signatures before the close of their own Provincial year. Your Dominion Secretary would then not have to shelve all other business to work on them at the last minute and pass them on to the printer with the request "Rush, please."

The past year shows a healthy growth in membership for the C.S.R.T. We have had a record number of candidates for examination and it must be a source of great encouragement to those whose work it is to train these applicants, that the percentage of successful candidates is high this year.

To the Canadian Medical Association, the Canadian Association of Radiologists and to the Canadian Hospital Council, the Canadian Society of Radiological Technicians extends its grateful acknowledgment and thanks for the continued support and interest shown.

To those organizations and individuals who have assisted us financially we are deeply indebted.

To the Officers of the Member-Societies, may I say that your help, co-operation and patience have been deeply appreciated and have done much towards helping the work of this office run smoothly and contributed to the general welfare of the Dominion Society as a whole.

Respectfully submitted.

—HENRY C. J. SIMKINS,
Secretary-Treasurer,
Canadian Society of
Radiological Technicians.

# The Focal Spot Calendar

*Journal of the Canadian Society of Radiological Technicians*

## 1948

### JANUARY

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

### FEBRUARY

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | | | | | | |

### MARCH

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

**PERCENTAGE OF MAGNIFIED RADIOGRAPHIC DISTORTION AT VARYING OBJECT-FILM AND TARGET-FILM DISTANCES**

| Object-Film Distance: | Target-Film Distance: 2 Ft. | 3 ft. | 4 Ft. | 5 Ft. | 6 Ft. | 7 Ft. | 8 Ft. | 9 Ft. | 10 Ft. |
|---|---|---|---|---|---|---|---|---|---|
| 1 inch | 4.34 | 2.86 | 2.13 | 1.69 | 1.41 | 1.20 | 1.05 | .93 | .84 |
| 2 inches | 9.05 | 5.88 | 4.35 | 3.45 | 2.85 | 2.44 | 2.13 | 1.89 | 1.69 |

## 1948

### JULY

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

### AUGUST

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

### SEPTEMBER

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

## APRIL

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

## MAY

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

## JUNE

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

| Object-Film Distance: | Target-Film Distance: 2 Ft. | 3 ft. | 4 Ft. | 5 Ft. | 6 Ft. | 7 Ft. | 8 Ft. | 9 Ft. | 10 Ft. |
|---|---|---|---|---|---|---|---|---|---|
| 1 inch | 4.34 | 2.86 | 2.13 | 1.69 | 1.41 | 1.20 | 1.05 | .93 | .84 |
| 2 inches | 9.05 | 5.88 | 4.35 | 3.45 | 2.85 | 2.44 | 2.13 | 1.89 | 1.69 |
| 3 inches | 14.29 | 9.05 | 6.67 | 5.26 | 4.35 | 3.70 | 3.24 | 2.85 | 2.56 |
| 4 inches | 20.00 | 12.50 | 9.05 | 7.14 | 5.88 | 5.00 | 4.35 | 3.85 | 3.45 |
| 5 inches | 26.31 | 16.13 | 11.64 | 9.09 | 7.46 | 6.32 | 5.49 | 4.85 | 4.35 |
| 6 inches | 33.33 | 20.00 | 14.29 | 11.11 | 9.09 | 7.69 | 6.67 | 5.88 | 5.26 |
| 7 inches | 41.18 | 24.14 | 17.07 | 13.27 | 10.77 | 9.11 | 7.86 | 6.93 | 6.19 |
| 8 inches | 50.00 | 28.57 | 20.00 | 15.38 | 12.49 | 10.53 | 9.09 | 8.00 | 7.14 |

### TABLE FOR FINDING EXPOSURE WHEN DISTANCE CHANGED

| Known Exposure T. F. Distance | FACTORS | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 20″ | 1.0 | 1.6 | 2.3 | 3.2 | 4.0 | 5.8 | 9.0 | 13.0 |
| 25″ | .64 | 1.0 | 1.4 | 2.1 | 2.6 | 3.7 | 5.8 | 8.3 |
| 30″ | .44 | .69 | 1.0 | 1.4 | 1.8 | 2.6 | 4.0 | 5.8 |
| 36″ | .31 | .48 | .69 | 1.0 | 1.2 | 1.8 | 2.8 | 4.0 |
| 40″ | .25 | .39 | .56 | .81 | 1.0 | 1.4 | 2.3 | 3.2 |
| 48″ | .17 | .27 | .39 | .59 | .69 | 1.0 | 1.6 | 2.3 |
| 60″ | .11 | .17 | .25 | .36 | .44 | .64 | 1.0 | 1.4 |
| 72″ | .08 | .12 | .17 | .25 | .31 | .44 | .69 | 1.0 |
| New T.F. Dist° | 20″ | 25″ | 30″ | 36″ | 40″ | 48″ | 60″ | 72″ |

**Example: Known exposure 50 m.a.s. at 40″.**
**New Distance 20″; Factor .25; 50 × .25 = 12½ m.a.s.**

### APPROXIMATE CHANGE IN KVP PER CM. FROM A GIVEN BASIC TECHNIQUE AT VARIOUS KV RANGES, USING PAR-SPEED SCREENS

| Kvp.: | Change per centimeter: | | |
|---|---|---|---|
| 30-40 | 1 -1½ Kvp. | 55-70 | 2 -2½ Kvp. |
| 40-55 | 1½-2 Kvp. | 70-85 | 3 Kvp. |

### CASSETTE LOCATION FOR VARYING ANGLES OF TUBE TILT

(Inches from directly beneath tube to centre of cassette)

| Angle of tilt | Height of tube 25″ | 28″ | 30″ | 36″ |
|---|---|---|---|---|
| 3° | 1¼″ | 1½″ | 1⅝″ | 1⅞″ |
| 6° | 2⅝″ | 3″ | 3⅛″ | 3¾″ |
| 9° | 4″ | 4½″ | 4¾″ | 5¾″ |
| 12° | 5⅜″ | 6″ | 6⅜″ | 7⅝″ |
| 15° | 6¾″ | 7½″ | 8″ | 9⅝″ |
| 18° | 8⅛″ | 9⅛″ | 9¾″ | 11¾″ |
| 21° | 9⅝″ | 10¾″ | 11½″ | 13⅞″ |
| 24° | 11⅛″ | 12½″ | 13⅜″ | 16″ |

$$\text{SHIFT} = \frac{\text{A.f.d.}}{2.5 \times \text{V.D.}}$$

### STEREO TUBE SHIFT (INS.)

| Anode Film Dist. | Viewing Distance 25″ | 27″ | 29″ | 31″ |
|---|---|---|---|---|
| 25″ | 2½″ | 2¼″ | 2⅛″ | 2″ |
| 28″ | 2¾″ | 2⅝″ | 2⅜″ | 2¼″ |
| 30″ | 3″ | 2¾″ | 2⅝″ | 2⅜″ |
| 36″ | 3⅝″ | 3⅜″ | 3⅛″ | 2⅞″ |
| 40″ | 4″ | 3¾″ | 3½″ | 3¼″ |
| 48″ | 4¾″ | 4½″ | 4⅛″ | 3⅞″ |
| 60″ | 6″ | 5½″ | 5¼″ | 4⅞″ |
| 72″ | 7¼″ | 6¾″ | 6¼″ | 5¾″ |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19 | 20 | 21 | 22 | 23 | 24 | 25 | | | | | | | | | | | | | | |
| 26 | 27 | 28 | 29 | 30 | | | | | | | | | | | | | | | | |

## OCTOBER

| S | M | T | W | T | F | S |
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| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | | | | | | |

## NOVEMBER

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | | | | |

## DECEMBER

| S | M | T | W | T | F | S |
|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

### TABLE FOR CONVERSION OF MA-SECONDS INTO FRACTIONS OF A SECOND AT VARIOUS MILLIAMPERAGES

Milliampere-seconds:

| Ma: | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 40 | 42 | 50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | 1/12 | 1/8 | 1/6 | 1/5 | 1/4 | 1/3 | | | 2/5 | 1/2 | | | 3/5 | | | 3/4 | 4/5 | | 1 |
| 100 | 1/25 | 1/17 | 1/12 | 1/10 | 1/8 | 1/7 | 1/6 | | 1/5 | 1/4 | | | | 1/3 | | | 2/5 | | 1/2 |
| 150 | | 1/25 | 1/20 | 1/15 | 1/12 | | 1/10 | 1/8 | 1/7 | 1/6 | | | 1/5 | | 1/4 | | | | 1/3 |
| 200 | | | 1/25 | 1/20 | | 1/15 | 1/12 | | 1/10 | | 1/8 | 1/7 | | | 1/6 | | 1/5 | | 1/4 |
| 250 | | | | 1/25 | 1/20 | | 1/15 | | 1/12 | 1/10 | | | | 1/8 | | 1/7 | | 1/6 | 1/5 |
| 300 | | | | | 1/25 | | 1/20 | | 1/15 | 1/12 | | | 1/10 | | | 1/8 | | 1/7 | 1/6 |

**Sixth Annual Dominion Convention — Quebec City, June 17-18-19, 1948**

## Financial Statement

September 14, 1946, to August 12, 1947

### EXPENDITURE

| | | |
|---|---|---|
| Transportation | $ 175.40 | |
| Stenography | 136.49 | |
| Postage, freight, telephone and telegrams | 125.92 | |
| Printing and stationery | 117.46 | |
| Pool fund expenses—net | 98.10 | |
| Secretary's Honourarium | 75.00 | |
| Rental of typewriter | 44.52 | |
| Audit fees | 40.00 | |
| Exchange—net | 5.04 | |
| Domiciliation fee | 2.00 | |
| | | $ 819.93 |
| Excess of revenue over expenditure for the period September 14, 1946, to August 12, 1947 | | $ 298.02 |

### LIABILITIES

| | | |
|---|---|---|
| Accounts payable | | $ 62.05 |
| Surplus— | | |
| Balance at credit, September 14, 1946 | $1,338.59 | |
| Add: Excess of revenue over expenditure for the period September 14, 1946, to August 12, 1947 | 298.02 | |
| | | 1,636.61 |
| | | $1,698.66 |

### REVENUE

| | | |
|---|---|---|
| Membership fees | $ 554.18 | |
| Member-Society dues | 90.00 | |
| Examination fees | 399.77 | |
| Certificates | 134.00 | |
| | | $1,117.95 |

### BALANCE SHEET

August 12, 1947

### ASSETS

| | |
|---|---|
| Cash in banks | $1,150.28 |
| Accounts receivable from Member-Societies | 30.00 |
| Organization expenses | 513.65 |
| Archives | 4.73 |
| | $1,698.66 |

We have examined the books and records of The Canadian Society of Radiological Technicians for the period from September 14, 1946, to August 12, 1947, and we have received all the information and explanations we have required.

In our opinion, the above balance sheet as at August 12, 1947, together with the relative statement of Revenue and Expenditure for the period from September 14, 1946, to August 12, 1947, exhibit a true and correct view of the financial position of The Canadian Society of Radiological Technicians at August 12, 1947, and the results of its operations for the period ending on that date, according to the information and explanations given to us and as shown by the books of the Society.

PRICE, WATERHOUSE & CO.,
Auditors.

MONTREAL, August 19, 1947.

## Vital Statistics 1946-1947

Paid-up membership by provinces as indicated by the ledger (1946 in brackets):

| | | | | | |
|---|---|---|---|---|---|
| Alberta | 36 | (36) | Nova Scotia | 26 | (31) |
| British Columbia | 56 | (41) | Quebec | 80 | (90) |
| Manitoba | 117 | (79) | Saskatchewan | 37 | (23) |
| Ontario | 162 | (132) | | | |
| New Brunswick | 20 | (20) | Total | 534 | (452) |

This represents an increase of 18% over the 1946 figure, the provinces of Manitoba, Ontario and Saskatchewan having made particularly good progress.

# Report of the Examining Board

As Chairman of the Examining Board I wish to submit the following brief report of the year's work together with a few comments and suggestions.

Examinations were held in November, 1946, and in May, 1947. A total of 150 candidates were examined; 66 in November and 84 in May. Of these 119 passed in all subjects; 31 failed in one or more subjects. Of the total number there were nine re-writes; of these all passed but one who has one more chance.

The greatest number of failures were in Therapy. Next came physics. These facts warrant serious consideration. It is apparent from the answers given that in many instances the candidate lacks even an elementary understanding of the nature of radiation, how it is produced, and the laws governing its use. What is still more dangerous is the almost complete ignorance, displayed in too many instances, concerning the basic effects of radiation on the human body. It does not seem possible that a candidate who is ignorant of the effect of x-rays on the human body can ever be a safe technician in the handling of x-radiation, even if only for radiography ad fluoroscopy. For this reason, I as Chairman of the Board, feel very strongly that therapy should continue to be included as an essential part of the requirements for all candidates, and I believe that the other members of the board share my views. A candidate must have some understanding of the biological effect so that limits of safety in radiography shall be understood.

This year your board has passed a few candidates whose knowledge of therapy was poor but whose knowledge in other subjects was good. These are in some instances candidates whose training has been obtained largely overseas and whose present work does not embrace therapy. As these extenuating circumstances are now over, special consideration can no longer be given.

The task of setting and marking examination papers has become greater than anticipated, and probably greater than most of you realize. I wish at this point to express my deep appreciation to the other members of the board for their co-operation. The routine has been better systematized and had it not been for holiday time interfering you would have had the results of the May examinations ready for publication at a much earlier date.

Consideration has been given to publishing the marks but this seems hardly fair because without oral examinations it is felt that marks on written papers alone might not be an altogether accurate index of the candidate's ability and might be used unfairly in obtaining employment.

Your board has given much thought to simplifying the procedure for marking the papers in order to save time. At first I was inclined to believe that one examiner might mark all the papers but after some experience, I feel strongly that at least three are needed. Possibly some thought should be given to having examiners situated closer together but that might be open to some objections.

It is with deep regret that I find myself unable to be present at the Annual Meeting this year owing to the absence from the city of my radiological confrere, making it quite impossible for me to leave at this time.

Respectfully submitted,

E. A. PETRIE, M.D.
Chairman of
Examining Board.

# Report of Resolutions Committee

IN submitting this report of your Resolutions Committee we wish to express our regrets at the loss this Committee sustained through the resignation of Mr. J. H. Coones, who was a member of this Committee last year. We have missed his services and considered judgment in the consideration of resolutions submitted.

It is again regretted that resolutions were not sent in to this Committee early enough to have them all published in the "FOCAL SPOT," as was suggested last year, and it is requested by this Committee that Member Societies give consideration during the Winter and Spring sessions to any resolutions they desire to have considered by the Resolutions Committee, and submit them as soon as a decision has been reached.

To enable all Official Delegates and Officers to have the opportunity of studying the Resolutions and suggested changes in the Constitution, copies of same were sent to the Secretaries of all Member Societies to be passed on to their Official Delegates, also to all Directors and Associate Directors.

There are ten resolutions and fifteen suggested changes in the By-laws to be presented for discussion at this Annual Meeting.

Your Committee think that an explanation is probably due to our members in reference to one resolution which we accepted and have pasesd on for your consideration. This is the one dealing with the question of a separate examination for "Therapy Technicians." We realize that a decision was previously made to include therapy questions in the regular examinations, and it is not suggested by this Committee that any change be made in this procedure. However, the question has been raised as to the possibility of technicians doing therapy only obtaining membership in the C.S.R.T.

This is not possible under our present Constitution, and as no resolution has previously been presented covering this particular question, your Committee considered it advisable to accept this present resolution so that a final and definite decision may be arrived at.

As Chairman of this Committee I wish to express my thanks to those submitting resolutions and advice in connection with same, and especially to the other member of this Committee, Mr. W. Q. Stirling, for his cooperation during the year.

We would remind our members that it is only through the resolutions they send in that our Society can obtain the opinions and viewpoint of its membership, and thus be guided in conducting the affairs of our Society.

Respectfully submitted,

HERBERT M. WELCH,
Chairman,
Resolutions Committee.

W. Q. STIRLING,
(Member).

# Report of Committee on Technicians' Training

AT the last Annual General Meeting of the Society, the undersigned and Dr. H. H. Cheney, of Vancouver, and Dr. E. A. Petrie, of St. John, New Brunswick, were appointed a Committee of your Society to investigate methods of training presently in existence and to explore the possibilities of unification of training and the possibility of advanced training for technicians.

The great distance between the locations of the members of this Committee has necessitated that the major portion of the work be done by correspondence, although on two occasions it was possible to have meetings of two or all members of this Committee.

Immediately following the Mid-Winter Meeting of the Canadian Association of Radiologists, held in Quebec in January, 1947, Dr. Petrie and I met with a number of the Executive of the Canadian Association of Radiologists, namely, Drs. Prowd, Wheeler, Peirce and Crawford. It was apparent at that time, as has been noted before, that there was wide divergence of opinion amongst Radiological Technicians and there was considerable variation as to the fundamental training requirements of various Radiologists. However, out of this meeting came the action, on the part of the Canadian Association of Radiologists, of circulating all members of the C.A.R. to find out what they were all doing with regard to the training of X-ray Technicians and to get their ideas of what the minimum requirements should be, for the commencement of training of technicians, of what the technicians' course should be composed and whether or not this should be combined with or augmented by university courses for X-ray Technicians. The response to this questionnaire was exceptionally good, although it served again to emphasize the wide variation of opinion with regard to the matter of fundamental requirements and of necessary training and also with regard to the matter of higher education for technicians.

At the Annual General Meeting of the Canadian Association of Radiologists, held in Winnipeg in June of this year, the work of this Committee was presented to the Annual General Meeting by the undersigned, who, after outlining the work already done, recommended that the Canadian Association of Radiologists appoint a Standing Committee on X-ray Technicians, to work as a liaison group between the Canadian Association of Radiologists and the Canadian Society of Radiological Technicians and to make certain that the C.A.R. was doing everything in its power for the furthering of the interests of the C.S.R.T. May I assure you that the Canadian Association of Radiologists is extremely interested in the well-being of the Canadian Society of Radiological Technicians and you may rely upon the continued and continuous support of this organization. After considerable discussion, the Standing Committee on Technicians was appointed by the Canadian Association of Radiologists, the Committee comprising: Dr. H. H. Cheney, of Vancouver, as Chairman; Dr. E. A. Petrie, of St. John; Dr. Jean Bouchard, of Montreal, and Dr. A. C. Singleton as members. The Committee has, as yet, had no opportunity of meeting but it is anticipated that a meeting of the full Committee will be held with the Mid-Winter meeting of the Canadian Association of Radiologists, to be held in Kingston early in January of 1948.

It is felt by your Committee that only a beginning has been made on this very large problem. For what has been done so far, your thanks are mainly due to Dr. E. A. Petrie, the Chairman of your Examining Board and members of this Committee, and to the interest and efforts of Dr. E. M. Crawford, Secretary of the Canadian Association of Radiologists.

Respectfully submitted,

A. C. SINGLETON, M.D.
Chairman of Committee
on Technicians' Training.

# Report on The Focal Spot

THE last report on The Focal Spot was presented at the Niagara meeting in September, 1946. This being exactly a year ago makes it easier to present comparative tables than has been the case in previous reports when we were dealing with unequal numbers of issues. I have therefore changed the table of 1945-6 to comprise four issues (October, 1945—July, 1946) for comparison with the past four issues (October, 1946 — July, 1947).

We unfortunately lost one advertiser at the beginning of the year, through no fault of anyone concerned, but merely owing to it being an English firm and it was considered necessary to cut down their advertising appropriation. We expect this space to be taken in the next issue. However, in view of the loss in revenue from this source we considered it wise to keep the number of pages down to 52 per issue if possible. As we were able to use this space for text this was done; otherwise we would have had to add one sheet, which is four pages and would have made the issue up to 56 pages. However an analysis of the size of type used shows that you got practically the same amount of reading material as last year although there are 13 pages less text this year, as the small type gives approximately one third more material per page and we had 85 pages of small type in the past four issues against 46 last year. Moreover the 1945-46 report included the Roentgen Anniversary number which was unusually big.

Last year a member was overheard remarking, "Who wants to know how many pages of this and that were in The Focal Spot!" This gave me a little food for thought and I wondered whether perhaps it was carrying things to extremes to subject the Journal to such close analysis. However, I still think it is a species of stocktaking which serves a useful purpose and I hope I can demonstrate this to you. For instance, we have an increase in Technical articles—67½ pages this year against 54½ last year, which I think is encouraging. I like to get at least one general article in each issue as distinct from definitely technical ones, but we certainly want to keep up and increase our flow of technical articles. Then I am glad to see that the Provincial News has gone up from 15 pages in 1946 to 30 pages this year. That indicates that the Provincial Societies are really using The Focal Spot as their magazine. Then, too, the increase in C.S.R.T. News from 34 to 54 pages shows that the Journal is increasingly serving its function as a medium for consolidating the Society as a National unit.

We are still printing 1,200 copies per issue as we need a certain number of reserve copies, but the actual circulation is gradually increasing and our reserve is less than it has been in the past. The Focal Spot

**OCTOBER 1945 TO JULY 1946**
Four Issues

| | | |
|---|---|---|
| Pages per issue: (incl. 3 covers) | | 57-67 |
| Total number of pages | | 242 |
| Average per issue | | 60.5 |
| Text | Pages | |
| 11 Technical articles | 54½ | |
| 15 General articles | 84½ | |
| C.S.R.T. News | 34 | |
| Provincial News | 15 | |
| Miscellaneous Items | 7 | |
| | | 195 |
| Lists of Officers, etc. | | 9 |
| Advertising | | 38 |
| | | 242 |
| Cuts: 50 (27 by Victor; balance, 23) | | |

**OCTOBER 1946 TO JULY 1947**
Four Issues

| | | |
|---|---|---|
| Pages per issue: 53-59 | | |
| Total number of pages | | 222 |
| Average per issue | | 55.5 |
| Text | Pages | |
| 15 Technical Articles | 67½ | |
| 6 General Articles | 25 | |
| C.S.R.T. News | 54 | |
| Provincial News | 30 | |
| Miscellaneous Items | 2½ | |
| | | 179 |
| Lists of Officers, etc. | | 8 |
| Advertising | | 35 |
| | | 222 |
| Cuts: 30 | | |

mailing list includes addresses in practically all countries of the English speaking world. The latest is one in Porto Rico, although I am not sure whether that could be classified as English-speaking. The Wellington branch of the New Zealand Society sent in a subscription for several copies of each issue, which are passed around from member to member. We are also sending copies to Australia and our mailing list includes a Chinese radiographer in China.

The new system of distribution from central points in each Province, which was introduced at the beginning of the year, seems to be working satisfactorily, although it is a little more expensive than the previous method.

Now we come to the somewhat delicate matter of the order in which the various provinces contributed articles. I admit that this is not entirely reliable because I probably have manuscript from some provinces which has not yet been used. However it does give a general idea of the situation.

Ontario apparently needs to look to its laurels as for the first time it has been pushed out of first place by Quebec. Manitoba has pulled up to where it should be as third in membership. Nova Scotia has made a comeback, while British Columbia has held its own. As for the last three we will hope they are among those in the Editor's file to be published in the near future, or if not, that they will be there soon.

Since the resignation of Mr. W. H. Osborne as Business Manager of The Focal Spot owing to his removal to Vancouver, Mr. Hugh Menagh has been carrying on the combined duties of Business Manager and Circulation Manager. As he is also President of the Ontario Society and has now been re-elected for another term, he found all these duties pretty heavy going and asked us to get a new Business Manager as soon as it could be arranged. I am glad to announce that Mr. George Ross, of Christie Street Hospital, Toronto, has kindly accepted this position.

With the increasing number of technicians needed in the near future and with the energetic co-operation of the member societies in seeing that these technicians are taken into the Society in the student stage, The Focal Spot should be due for a considerable increase in circulation in the next few years. Its quality is dependent largely on the support of the members in sending in good articles. Its size is limited by the circulation and the amount of advertising we can secure to cover the increased cost of a larger magazine. I feel that we already have a good magazine, but I also feel that there is a wealth of untapped resources in as-yet-unwritten articles, which could make our journal outstanding. May I appeal to some of those who hear or read this report to start that paper, the germ of which has been hovering in their minds for some time. If everyone will pull their weight we can really have an outstanding journal and an excellent Society.

In conclusion may I again thank the advertisers for their loyal support and also express my appreciation of the valuable co-operation of the Sub-Editors in gathering the material for The Focal Spot.

Respectfully submitted,

L. J. CARTWRIGHT,
Editor The Focal Spot.

ARTICLES SENT IN BY PROVINCES IN NUMBER OF PAGES

OCTOBER 1945 TO JULY 1946
Four Issues

| Order by size of membership | | Pages |
|---|---|---|
| 1. | Ontario | 46 |
| 2. | Quebec | 26 |
| 5. | Alberta | 7½ |
| 7. | Saskatchewan | 6 |
| 4. | British Columbia | 5 |
| 6. | Nova Scotia | 4 |
| 8. | New Brunswick | 3 |
| 3. | Manitoba | — |

OCTOBER 1946 TO JULY 1947
Four Issues

| Order by size of membership | | Pages |
|---|---|---|
| 2. | Quebec | 29 |
| 1. | Ontario | 26½ |
| 3. | Manitoba | 12½ |
| 6. | Nova Scotia | 10½ |
| 4. | British Columbia | 4 |
| 5. | Alberta | — |
| 8. | New Brunswick | — |
| 7. | Saskatchewan | — |

# Report of the Registrar

As you know, the office of Registrar has been functioning for one year, it being an appointment made following the C.S.R.T. convention of 1946.

This year's work has consisted largely in preparing and issuing the C.S.R.T. Certificates. In this report I should like briefly to review the steps taken leading to the receipt of your C.S.R.T. Certificate, in order to explain just why it took such a long time.

Before the end of 1946, complete lists of members had been received from each Provincial Secretary, and following the notice in January "Focal Spot" re the registration fee of One Dollar, applications immediately began to arrive. On April 7th of this year, the Certificates were received through Mr. Cartwright from the engravers. At that time I more or less understood definite arrangements had been made for engrosing the individual names on each Certificate, but after some correspondence with Mr. Welch and Mr. Hunt, discovered it was left to the discretion of the Registrar. A local stationer in Moncton stated this could be done through their firm, but three weeks passed before any definite information could be obtained from them (in spite of daily 'phone calls to remind them), and at the end of that time, which was really wasted, they stated they could not do the work. Finally arrangements were made to have it done in St. John, and on June 2nd 110 Certificates were sent to Messrs. J. and A. McMillan, Ltd., St. John. These were returned to me on July 30th. The next step was to have them signed by the President in Regina, and have the Official Seal stamped by the Secretary-Treasurer in Montreal, sc that it was August 20th when they were finally despatched from Moncton by mail to the individual member.

I might add that since this writing 22 additional technicians have made applications for certificates, 21 of which are now being engrossed in St. John.

In order that you may note the applications for Certificates which have been received from each Province, the following breakdowns have been made:

Nova Scotia, 5; New Brunswick, 9; Quebec, 38; Ontario, 19; Manitoba, 19; Saskatchewan, 16; Alberta, 28; British Columbia, 18. Total, 152.

Number sent out, 110; now at printer's, 21; requested in French, 21. Total, 152.

As noted above applications have been received for 21 certificates in the French language. These have not been attended to as yet, because no certificates have been sent along to me in French. Recalling certain discussion on this matter from last year, I believe it was decided to leave a definite decision until a later date, pending the number of applications received for a French certificate. During the year recommendations were received from two technicians regarding change in positions: one from a technician in Alberta desiring to come to the Maritime Provinces, and one from a technician in Nova Scotia desiring to make a change, not specifying where. These letters were answered, but the registrar's files had nothing to offer either technician.

Suggestions are always welcome, and in July correspondence from Mr. Jackson suggested a Kardex system of indexing. This suggestion came at a time when I was contemplating much the same idea. At the present time there is much information regarding each technician to whom a certificate has been sent which must be filed in a convenient manner.

I would like to express my appreciation and thanks to the President, Mr. Hunt, and to the Secretary-Treasurer, Mr. Simkins, for their close contact and help during the year. Also to our Focal Spot Editor, Mr. Cartwright, who has done so much towards our Certificates; and to the Secretaries of each Provincial Society for their prompt response and membership lists.

Respectfully submitted,

K. CREELMAN, R.T.,
Registrar, C.S.R.T.

# Report of Historian

THE retiring historian can report but little progress this year. This has been due to a number of factors, the chief of which being my appointment, last Fall, as secretary to the Board of Examiners, which has entailed and still entails a great deal more work than was anticipated. A number of biographical sketches were received during the year, especially from Ontario, but these, too, did not reach the stage of orientation and compilation. As historian, I felt that an important piece of work was being neglected and not having the time to devote to it myself, I asked to be relieved. I did this with a great deal of regret, as preparing a history of the C.S.R.T. is work that appeals to me, and I would wish to impart to my successor a real affection for this interesting and important work of our organization.

In relinquishing this office, I want to express my thanks to the officers of the Society for their kind encouragement and, in particular, to Mr. P. E. Hunt for his unfailing tact and kindness; all those members who have co-operated with me by sending their biopgrahical sketches are deserving of a special note of thanks. I wish to urge all those who have not yet filled in their questionnaire to do so, sending the completed form to the Historian. These forms may be obtained through the provincial secretaries.

SISTER M. ROSE AGNES, R.T.

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# Report of Committee on Laws

AT the Annual General Meeting held at Niagara Falls in September, 1946, it was decided that a Committee of Laws should be formed, the appointing of this Committee being left to the Board of Directors. In April of this year the undersigned personnel was officially announced.

One of the duties of the Committee on Laws is to avoid any legislation creeping into the "Rules and Regulations" of the Society which will in any way conflict with the "Memorandum of Agreement."

Among the other duties are grouping together in a systematic manenr all the various motions which have received the sanction of the Board of Directors and of the membership from time to time and placing them in legal form under the heading of "Rules and Regulations" as pertaining to Board of Examiners, Examinations, The Focal Spot, Duties and Responsibilities of various officers and committees, including those of our own committee.

This task will be a long-drawn out affair requiring a tremendous amount of correspondence with various officers and heads of committees, without whose co-operation we cannot function. With this in mind we ask each and every one of you concerned to be patient and co-operative by answering all correspondence carefully and promptly.

Our first small step on a long trail will be taken at this meeting when we present for confirmation the unconfirmed portion of "Rules and Regulations" governing the Board of Examiners and Examinations.

With reasonably good luck we hope to report real progress by convention time next year.

I wish to take this opportunity of expressing thanks to my colleagues, Mrs. Payne and Miss Beckett, and the various members of the Executive and Committees for their kind co-operation. I also wish to thank Miss K. Cormick, a fellow-technician, who has so kindly and generously given of her time in typing material for the committee.

WM. DOERN,
(Chairman pro tem).
MRS G. L. PAYNE,
MISS G. BECKETT,
Committee on Laws.

# Minutes of the Fifth Annual Business Meeting C. S. R. T.

(Condensed by the Secretary-Treasurer from the Verbatim Report of the Public Stenographer)

ALL meetings were held at the Bessborough Hotel, Saskatoon, beginning with the Preliminary Meeting of the Board of Directors held at 8.15 p.m. on September 3rd, 1947, and continuing through to Sunday morning, September 7th, at which time the sessions terminated with a meeting of the Board of Directors held at 10.15 a.m.

### Preliminary Session, Board of Directors, Wednesday Evening, September 3rd, 1947

Present at the first Board of Directors meeting were Mr. P. E. Hunt, R.T., President of the Society and Chairman of the Board; Mr. H. C. J. Simkins, R.T., Vice-President and Secretary-Treasurer, and Mr. Herbert M. Welch, R.T., Director repesenting the Member-Societies. The highlights of this particular meeting were as follows:

It was agreed that we act upon the suggestion of Messrs. Price, Waterhouse & Co. to write off against surplus certain items in connection with organization expenses and archives in the amount of $518.38.

It was agreed to request the membership to submit nominations to the Resolutions Committee, to the Board of Examiners and to the office of the Historian, and that the Board would select the requisite members from such nominations.

It was agreed that the general membership be advised that no ballot in connection with the current elections would be declared invalid through the inadvertant use by any member of page 2 of the ballot paper.

### Preliminary Session, Attended by the Executive Officers and Official Delegates, Thursday Morning, September 4th, 1947, 8.30 a.m.

Those present included:

Directors, C.S.R.T.:

Dr. A. C. Singleton, Toronto.
Mr. P. E. Hunt, R.T., Regina.
Mr. H. C. J. Simkins, R.T., Montreal.
Mr. Herbert M. Welch, R.T., Calgary.

Chairman of the Board of Directors of The Focal Spot:

Mr. L. J. Cartwright, R.T., Toronto.

Chairman-protem, Committee on Laws:

Mr. W. Doern, R.T., Winnipeg.

Official Delegates Representing the Member-Societies:

ALBERTA—Miss Frances Shaw, R.T., Calgary.
BRITISH COLUMBIA — Mr. W. Q. Stirling, R.T., Vancouver.
MANITOBA—Mr. Roy Gore, R.T., Winnipeg.
NEW BRUNSWICK—Miss K. Creelman, R.T., Moncton.
NOVA SCOTIA—Mr. A. Perry, R.T., Halifax.
ONTARIO — Mr. W. Parsons, R.T., Toronto.
QUEBEC—Sister Marguerite De Jesus, R.T., St. Laurent.
SASKATCHEWAN—Mr. S. G. Johnston, R.T., Moose Jaw.

Among the important items of business discussed and dealt with were the following:

1. That the Committee responsible for the work involved in the distribution of the Delegates' Pool Fund be authorized to continue their duties for this current session.

2. That the Chairman of the Committee on Laws be authorized to submit all costs relative to that work to the C.S.R.T. for payment, except that all tentative expenditures in excess of $100.00 be first of all submitted to the Board of Directors for approval.

3. Mr. Johnston, Miss Creelman and Mr. Simkins were appointed a committee to investigate the preparation and distribution of ballot papers, and to report back to the Board with suggestions relative to future actions in connection with this work.

Moved by Mr. Doern, seconded by Mr. Gore, "That as soon as annual dues covering C.S.R.T. membership be received by the secretary of the C.S.R.T., he shall forward the requisite number of membership cards to the secretary of the Member-Society in-

volved, who shall distribute same to the accredited members." Carried.

## First Session of the Fourth Annual General Meeting, Thursday Morning, September 4th, 1947

The session opened at 10.30 a.m. with President P. E. Hunt in the chair.

The meeting was officially opened with an address of welcome to Saskatoon by His Honour, Mayor McPherson. Following this the business meeting was adjourned till 1.45 in the afternoon and the technical session was proceeded with.

The meeting was resumed on Thursday afternoon at 1.45 p.m., Mr. Hunt presiding.

The President—I wish to call you to attention for the second session of this Fifth Annual General Meeting.

Is there any business arising from the perusal of the minutes of the last general session of the C.S.R.T.?

It was moved by Mr. Parsons, seconded by Miss Shaw, "That the minutes as recorded and printed in the October 1946 issue of The Focal Spot be accepted as authentic." Carried.

The President—We will now hear the report of the Secretary-Treasurer. (Here followed the Secretary-Treasurer's report.)

The President—The next item of business will be the appointment of scrutineers. Before we deal with this, I wish to make a few remarks. There is some apprehension on the part of the Board of Directors and on the part of your various Official Delegates, and they wish this announcement made to you before the scrutineers are actually appointed. It is respectfully suggested that in the case of any ballots which the scrutineers might discover completed on page two, the scrutineers are to delete that page and discard it, because the business on that page is not the concern of the general membership, but of the Official Delegates. We, therefore, do not want ballots thrown out as being disqualified because the members who used page two may have felt that they had the right so to do. Your Board accepts the responsibility and admits that the papers are definitely very misleading. The scrutineers will, therefore, base their findings entirely on what is laid down on page one. Do any of the delegates wish to add to what I have said? (No response.) I will take it then that you feel the situation is well covered.

Miss Shaw—There may be something aris ing from the other matter we took up.

The President—At the Executive Meeting this morning we appointed a committee of three and empowered that committee to investigate the preparation of the ballot, the distribution of the ballot and all matters pertaining to the same, and instructed that committee to report back to the Board of Directors with any suggestions they might have which would guard against such future trouble, so you can see that we have the matter in hand and will deal with it the best way we know. It is right and proper that you should know that such a committee was appointed and that the matter was being dealt with. Mr. Johnston, Saskatchewan; Miss Creelman, Nova Scotia, and Mr. Simkins, Quebec, are the members appointed to take care of that work.

The nominations for scrutineers for this fifth annual ballot are as follows: Mrs. McIntyre, Mr. Brown, and Mr. Mel Smith. (Scrutineers retire with the ballots.)

The President—We will now have the report from the Board of Directors of The Focal Spot.

Mr. Cartwright read his report on The Focal Spot.

The President—You have heard the report of the Chairman of the Board of Directors of The Focal Spot. He has given you the facts and figures relative to the administration of that jourual. I feel that a great deal of credit is due to him and the members of his Board for the fine work they are doing. (Applause.)

The President—With regard to the report of the Board of Examiners. Dr. Petrie sent me a wire regretting that circumstances would not permit his attendance and he has forwarded his report to us. It will now be read to you by the Secretary. (Here followed the report of the Board of Examiners.)

The President—You will later hear resolutions dealing with the delay in the marking of examination papers so that there is no need for us to take up the subject immediately.

I may say with regard to Dr. Petrie's comments regarding ex-service personnel, the feeling on the part of your Board of Directors and of your Board of Examiners has been that we should be lenient to the point of excess in connection with men and women who have served overseas as x-ray technicians. We place the onus of recommending such technicians as members on the Member-Societies, feeling that they would be conversant with the conditions relative to the various candidates. You can understand why Dr. Petrie would say that some of them lack knowledge of therapy. They had been practical x-ray technicians, but had not had the protective knowledge ordinarily required of a technician.

We will now have the report of the Resolutions Committee. (Here followed the report of the Resolutions Committee.)

Mr. Welch—The results of the work of this committee will be printed and you will be asked to deal with the resolutions which this committee feels ought to be dealt with.

The President—The resignation of Mr. Coones has been brought to your attention. You are going to be asked during the course of these sessions to submit names to your Board of Directors from which nominations your Board will fill three vacancies: the Historian, through the resignation of Sister Rose Agnes; a member of the Board of Examiners, through the retirement of Mr. Hurst, and the third, a member for the Resolutions Committee. Please think of this so that when the nominations are called for, you will be ready to submit the names for these various positions.

Mr. Herbert M. Welch, Calgary, Chairman of the Committee on Official Delegates' Expenses, then presented an interim report concerning the allottment of monies for the current convention based on the figures available at that time.

He advised the membership that a correct statement would be issued before the end of the convention, so that the official delegates could carry that information back with them. (*See Report published in October* 1947 *Focal Spot.*)

The President—You have heard the interim report of the committee appointed to deal with this matter of the distribution of monies in connection with delegates to the convention.

We will now have the report of the Registrar.

(Here followed the Registrar's report.)

Following the presentation of the Registrar's report, the President requested the Official Delegates to make some attempt to investigate the explanation as to why approximately only one-third of the paid-up membership had made application for certificates.

He also requested the Quebec delegate to be a committee of one to take such steps as may be required to obtain a census of the number of French certificates required and how they should be worded.

The President—We were to receive a report from the committee appointed to negotiate with the Canadian Medical Association and the Canadian Association of Radiologists relative to student training. At the request of the Chairman of that committee we have purposely delayed the presentation of that report until Saturday morning. Are there any other committees to report?

(Here followed the report of the Historian.)

The President—We would hear from the Committee on Laws.

(Here followed the report of the Committee on Laws.)

The President—We have the Scrutineers' report.

The Secretary—The report which has been handed to me reads as follows: Mr. P. E. Hunt—78, Mr. Perry —21, Miss Hawes—9, Mr. Reason—22. Ballots spoiled 10. Total 140.

The President—I would like to get a consensus of opinion on the following: Do you wish to proceed now with the resolutions which are coming up for discussion or do you prefer to wait until 8.30 on Friday morning?

It was agreed by show of hands to wait until Friday and the session adjourned.

## Special General Meeting, Thursday Evening, September 4th, 1947

This was a special general meeting called for the purpose of establishing necessary changes in the Constitution, the President, Mr. P. E. Hunt, in the chair.

Before opening the session, the Chairman read the list of successful candidates who had

written examinations during May of 1947. (*List in October* 1947 *Focal Spot.*)

The President—This meeting is called to consider proposed changes in the By-Laws of this Society. As an explanatory foreword, may I say this: Much of the work has already been done. It was done last year at a meeting of this type, but the work that you did last year brought into existence, as it were, the need for further work and that is what you are about to do now, in an effort to finish up with a set of By-Laws which we will submit to the Secretary of State for approval. That is the purpose of your job here to-night. The minutes of this special general meeting mentioned have been printed in the October 1946 issue of The Focal Spot. I am going to ask that the minutes of that special general meeting be adopted as printed. It was moved by Mr. Welch, seconded by Mr. McKinnon, "That these minutes as printed in The Focal Spot of October 1946 for the purpose of considering changes be adopted." Carried.

The President—Mr. Welch will present paragraph by paragraph those sections which require your consideration.

Mr. Welch—Membership — Page 5 of the Constitution, By-Law No. 3 — "This corporation shall consist of Honorary Members, Member-Societies, and Ordinary Members." It is suggested that Associate Members be included.

It was moved by Mr. Stirling, seconded by Mr. Parsons, that section 3 of this By-Law, amended to include admission of Associate Members, as read, be approved. Carried.

That By-Law No. 4 under Membership—2 "The rights and privileges of every member and every Member-Society shall not be transferable" be changed to read, "The rights and privileges of every member, Member-Society and Associate Member shall not be transferable or transmittable by his, or its own act, or by operation of law, and no Honorary Member or Associate Member shall by reason of being legally a member of the Society be entitled to any privileges other than those which by the By-Laws attach specifically to that class of members.'

It was moved by Mr. Newell, seconded by Mr. Mel Smith, "That that section as read be approved." Carried.

The President—It has been suggested that when proposed By-Laws relate to one another they be grouped and discussed and voted upon as a group. The Chair feels that this is a procedure to be avoided and that each section should be dealt with separately.

Mr. Welch—By-Law No. 8 — Ordinary Members, which now reads "Any person engaged in or associated with the science of radiographic technique, or who is now engaged in radiological technical work,' be changed to read, "Any person engaged in radiological technical work shall be eligible for election to ordinary membership in the corporation provided."

The President explained that a change was proposed in the preamble to By-Law No. 8 and discussion followed concerning that preamble.

It was moved by Miss Shaw, seconded by Mr. Jackson, that the preamble as read be adopted. Carried.

The meeting then dealt with Clause (a) of By-Law No. 8 and following considerable discussion it was approved, following a motion by Mr. Welch and seconded by Mr. Allan that Clause (a) read: "That he is a member of the Canadian Association of Radiologists."

Clause (b), By-law 8. It was moved by Mr. Doern, seconded by Mr. Stirling, that Clause (b) of By-law 8, which reads: "That he is a radiological technician working in an ethical manner and is a member in good standing of a Member-Society" be approved. Carried.

Considerable discussion followed concerning Clause (c) of By-law 8, and it was finally moved by Mr. Newell, and seconded by Miss Shaw, that Clause (c) of By-law 8, which reads: "That he is a radiological technician actively practising radiological technique in an ethical manner" remain. Carried.

A by-law was then submitted for discussion concerning the admission of Associate Members as provided for under the new By-law 3. This new by-law, designated as 8(a), reads as follows: "An Associate Member shall be a person who is engaged in the commercial field on behalf of manufacturers or distributors of x-ray equipment and accessories, or such other persons as the Board

of Directors shall from time to time nominate. Associate Members shall have the privilege of attending all meetings, discussions and conferences of the corporation but shall not have the right to vote thereat, except when specifically appointed to a committee of the corporation and their right to vote shall be limited to voting as a member of such committee."

It was moved by Miss Shaw, seconded by Mr. Johnston, "That the section in reference to Associate Membership, as it was read, be approved." Carried.

The three clauses of the new By-law 9 were then discussed in order of their appearance. Clause (a) "One Director shall be nominated by the Canadian Medical Association." Mr. Doern moved its adoption, it was seconded by Mr. Parsons, and it was approved that the clause be adopted as read. Clause (b) "One Director shall be nominated by the Canadian Association of Radiologists." It was moved by Mr. Mel Smith, seconded by Mr. Bartlett, that that clause be approved. Carried. (Clause (c) One Director shall be nominated by each Member-Society." It was moved by Mr. Stirling, seconded by Mr. Doern, that this clause be approved. Carried.

Certain clauses under By-law 12, which dealt with the officers of the Society, were then submitted for discussion and are reproduced here in order as they were dealt with. Clause (c) "The President shall be one of the Directors elected under Clause (c) of By-law 9 and shall be elected at the Annual Meeting by the delegates qualified to vote at such meeting and shall hold office for a term of one year only. It was moved by Mr. Gore, seconded by Mr. Allan, that Clause (c) of By-law 12 be approved. Carried.

Clause (d) was next to be dealt with, "The Vice-President shall be one of the Directors elected under Clause (c) of By-law 9 and shall be elected at the Annual Meeting by the delegates qualified to vote at such meeting and shall hold office for a term of one year only. It wah moved by Miss Shaw, seconded by Mr. Cartwright, that that section be approved. Carried.

Clause (e) was the next to receive attention, and following considerable discussion, the section as finally approved on motion of Mr. Johnston, seconded by Mr. Cartwright, reads as follows: "The Secretary-Treasurer shall be appointed by the Board of Directors."

Clause (f) of By-law 12, reading as follows: "The Executive of the Board of Directors shall consist of the President, the Vice-President, and two other Directors appointed by the Board of Directors" was approved, on motion of Miss Creelman and seconded by Miss Dodman.

Mr. Welch then read Clause (b) of By-law 17, "Casual vacancies occurring among the members of the Board of Directors caused by retirement, death or otherwise, may be filled by resolution of the Board of Directors for the unexpired term of the Director vacating office, provided that appointment shall be made from among those entitled to be elected, or appointed, in accordance with By-law 9(c) to the vacant Directorship, and in the event of the President vacating office, the Vice-President shall become President and the Board of Directors shall appoint a new Vice-President." It was moved by Mr. Gore, seconded by Miss Shaw, that this section be approved. Carried.

Mr. Welch then read By-law 18, "The Board of Directors shall meet on demand of the President, or the Vice-President, or of any two Directors, and meetings shall be held at such place as the Board of Directors may from time to time determine, and at every meeting of the Board of Directors five members shall constitute a quorum." Mr. Stirling moved, and Mrs. Anderson seconded, that that section be approved. Carried.

By-law 19 was next submitted to the membership on motion of Mr. Mel Smith with Miss Perron seconding. This section reads as follows: "Proceedings at a meeting of the Directors shall be by a majority of votes of those present and upon demand of any Director, voting shall be by ballot, and in the event of an equality of votes, the Chairman shall have a second, or casting, vote." This was approved.

Mr. Welch then read By-law No. 22, which reads as follows: "The Annual General Meeting shall be held at such time and place as the Board of Directors may from time to time determine, but not more than fourteen months shall elapse between one Annual General Meeting and the next." It was moved

by Miss Creelman, seconded by Mr. Cartwright, that this section be approved. Carried.

By-law No. 25 was next presented, "The President, if present, shall preside at all general meetings of the corporation. In the absence of, or the refusal to act, of the President, the Vice-President, or the senior member of the Board of Directors present, shall preside." It was moved by Mr. Stirling, seconded by Mr. Parsons, that By-law 25 be approved. Carried.

Next for discussion were those sections which have to do with the property and funds of the corporation. Considerable discussion centred around this problem, and as finally approved by the membership, there are five sub-divisions of By-law No. 34, which covers the various fees. They are presented here in order of their adoption together with the names of the mover and seconder in each case.

Section (a) by Miss Shaw, and Mr. Nadeau, "The annual subscription for a Member-Society shall be the sum of Ten Dollars."

Section (b) by Mr. Doern, and Miss Creelman, deals with members of the Canadian Association of Radiologists admitted to membership in this Society, and reads as follows: "The annual subscription for ordinary members admitted under By-law 8, Clause (a) shall be Five Dollars."

Section (c) by Miss Shaw and Mr. Nadeau, refers to technicians working in an ethical manner and members in good standing of the various Member-Societies and reads as follows: "The annual subscription for ordinary members under By-law 8(b) shall be the sum of Three Dollars."

Section (d) by Mr. Doern and Mr. Jackson, deals with technicians actively practising radiological technique in an ethical manner but not necessarily members of a Member-Society, and reads as follows: "The annual subscription for ordinary members elected under By-law 8(c), shall be the sum of Ten Dollars."

Section (e) by Miss Shaw and Mr. Stirling, reads as follows: "The annual subscription for Associate Members elected under By-law 8(a), shall be the sum of Five Dollars."

It was then proposed to eliminate from the constitution section 50 dealing with officers for the founding of the Society prior to the election of officers at the First Annual Meeting.

The motion was made by Mel Smith and seconded by Miss Steski that this clause be eliminated. Motion carried.

The question then came up as to the date that the proposed changes in the Constitution would come into effect. The membership were advised that the completely revised Constitution as approved of by them would have to be assembled and submitted to the Secretary of State for approval, and that they could not come into effect until that approval had been received. It was finally moved by Mr. Welch, seconded by Mr. Smith, that these proposed by-laws shall come into effect not later than March 31st, 1948. This motion carried.

This concluded the Special General Meeting.

## Second Regular Session of the Fifth Annual General Meeting, Friday Morning, September 5th, 1947

The regular session of the Fifth Annual General Meeting reconvened on Friday morning, September 5th, at 9.00 a.m. Following the Roll Coll of Official Delegates, the President asked the delegates if they were prepared to report the results of the election to the Board of Directors of a representative of the Member-Societies.

Mr. Parsons—I think we settled that question yesterday afternoon and decided that Mr. Herbert Welch was the choice.

The President—We may accept that as official.

The Chair will deal with those nominations which were brought to your attention earlier in the general sessions. The Chair refers to those persons to be appointed to the Resolutions Committee and to the Board of Examiners. I believe, Mr. Secretary, nominations to the position of Historian must also be dealt with. In explanation, Members, I would again remind you that from those nominations which you present, the Board of Directors will appoint individuals to the various positions and Boards, etc. Shall we deal with the Historian? Have you any nominations for that position?

Miss Perron was nominated by Mr. McClellan; Mr. Ghent was nominated by Mr. Parsons; and Mr. Doern was nominated by Mr. Smith.

Since there were no further nominations, the President declared that order of business closed.

The President—We will now deal with the vacancy on the Resolutions Committee. That committee has been set up as an apparently permanent committee with new members being appointed from time to time. One of the members has resigned. We wish you to nominate individuals from which the Board will elect a member to the Resolutions Committee, who will serve for two years, eventually reaching the Chairmanship.

Mr. Parsons was nominated by Mr. Doern but declined the nomination.

Mr. Gore was nominated by Mr. Johnston.

Since there were no further nominations, the Chairman declared the order of business closed, and called for nominations to the Board of Examiners.

The President—Here again we would ask that you nominate a regular member of the Society in good standing to serve on the Board of Examiners for a term of three years. From your nominations the Board of Directors will appoint that member.

The following nominations were then submitted: Mr. Bodle by Mr. Johnston; Mr. Perry by Mr. Parsons; Miss O'Hagan by Miss Shaw.

Since there were no further nominations, the President declared that order of business closed, and advised the members to expect an official announcement from the Board concerning the various appointments.

The President—Has anyone here any unfinished business you would like dealt with? (No response.)

Is there present any member of any committee who feels that his work has not been dealt with? (No response.)

Has any delegate any problem that has not been mentioned, or nothing done about it?

Delegate—With regard to Associate's fee, some Societies have paid and some have not. I was asked to find out what was going to be done about that. Will there be any retribution? or will that be accepted the way it went through in the past?

The President—Mr. Gore asked that question. I have to rely for some assistance from the Secretary but at the moment I may say this: that sometime during the ordinary procedure of your convention meetings a resolution was duly moved, seconded and dealt with that the sum of $1.00 for an Associate Member registered as such with a Member-Society be paid. It has been common knowledge for some three years, I believe, that it did occur. In other words, on January first of each year, there automatically comes due to the C.S.R.T. from the various Member-Societies a fee of $10.00 as a Society, and $1.00 a year from the Associate Members. Such monies have come regularly from most of the Member-Societies.

Mr. Doern—In connection with requests for membership, there is nothing in the Constitution, as it stands, which gives us an age limit. I am rather inclined to think anyone may join at any age. Anyone under 21 years is a minor. We should have some stipulation in the Constitution, which states that a member should be 21 years of age. That should be a member requisite.

The President—Do you wish to build such a rule and regulation into the By-laws?

Mr. Doern—It might be well.

The President—The Chair would like a qualification with regard to age in the granting of a certificate of membership in the organization. Is anyone prepared to submit a resolution covering that?

It was moved by Mr. Doern, seconded by Mr. Parsons, that applicants for registration must be twenty-one years of age. After some discussion this motion was carried.

The President—Is there any other unfinished business?

Mr. Doern—In connection with examinations.

The President—I hope that this does not encroach on the special meeting to deal with such work.

Mr. Doern—As specified, examinations must be written the first Friday in May and November of each year. There is absolutely no alternative, unless you make application to the Examining Board. The same examination papers are used across the Dominion and it is possible that unfavourable

circumstances would prevent anyone from writing their examinations on that particular day. With such an emergency in mind, we should make mention of that particular circumstance. I might suggest that it might be reasonable to allow any provincial group, as a group, and not as individuals, to write examinations either one day before ore one day after that date. I feel that any further deviation from that date would have to be granted by the Examining Board.

The President—The Chair will entertain a motion which would declare that at the discretion of the Member-Society involved, examinations may be held one day earlier or one day later than that date set by the Board of Examiners.

Mr. Doern—Would it be in order to hold this over for the next session?

The President—It would be better if you could go to the Board with a written motion covering the subject, Mr. Doern. The membership will have time to think and talk about it. Is there any other unfinished business? I am trying to avoid matters that ought rightfully to be discussed under specific headings.

The Secretary—Mr. Chairman, I think last year there was an agenda on a badge for the Canadian Society.

The President—I think it can be dealt with. It is found in the minutes that a committee be formed to design a suitable pin, have it approved and struck. To my knowledge no such committee was appointed.

The Secretary—I move that we appoint Mr. Smith and Mr. Gore a committee to proceed with that work.

Discussion followed.

The President—It has been moved by Miss Shaw, seconded by Mr. Johnston, and approved, that the cost of the lapel pin be borne by individual members. Now you had better put some limit upon the cost. The Chair will entertain a motion relative to the cost.

Following further discussion, it was agreed by show of hands to defer discussion with regard to costs until Saturday morning. Meeting then adjourned.

## Special General Meeting, Friday Afternoon, September 5th, 1947

Following the roll call of Official Delegates, the meeting was duly called to order by the presiding officer, Mr. P. E. Hunt.

The President—This is a special general meeting called for the purpose of approving certain sections of the proposed rules and regulations. You have received a report from your Committee on Law. I hope you have a picture of what that committee is supposed to do. The Chairman of that committee is going to present to you some of those rules which have been proposed, some by the Board of Directors, some by the Board of Examiners, and some by the membership from time to time. They are able at this time to give you some authoritative material with which you can conduct your business. I am going to ask Mr. Doern for his report, certain sections of which will require your approval that they may be written into the records.

(Mr. Doern reads the report.)

The President—You have heard a section in connection with the conformation of the Board of Examiners. You are aware that it will consist of two Radiologists and one Technician. What is your pleasure? Do you wish to amend it?

Question—How is that going to affect the change in the Board of Examiners?

The President—This section refers to the central Board.

Mr. Welch—It will not refer to any accessory boards.

It was moved by Mr. Welch, seconded by Mr. Smith, that the above section be adopted. Approved.

Mr. Doern—In that same section we have Clause (d), "Appointments to the Board of of Examiners shall be made by the Board of Directors of the C.S.R.T. from nominations received in such manner as the Board of Directors shall from time to time direct." Moved by Mr. Stirling, seconded by Mr. Connor, that section (d) be adopted. Carried.

Mr. Doern—Under Applications for Examination, Clause (a), "Applications for Examinations will be made through the Secretaries of Member-Societies on the forms supplied for that purpose, which forms, when completed and approved, by the executive officers of the Member-Society, shall then be forwarded to the Chairman of the Board of Examiners."

The President—Perhaps it is in order for the Chair to tell you that that has been common practice. What is your pleasure regarding this?

It was moved by Miss Creelman, seconded by Mr. Mel Smith, that the section be approved. Carried.

Mr. Doern—Still under the heading Application of Examination, Clause (b), "Applications must reach the Chairman of the Board of Examiners at least one month before the next examination date."

The President—That particular section has been inserted at the direct request of the Board of Examiners. It gives time after receipt of the application to get the papers out to the Member-Societies and then on to the candidates.

It was moved by Mr. Parsons, seconded by Mr. Gore, that the section be adopted. Carried.

Mr. Doern—Under Marking of Papers, Clause (d), "Completed application form showing the marks obtained by the candidate shall be sent by the Board of Examiners to the Registrar."

It was moved by Miss Shaw, seconded by Mr. Johnston, that the section be approved. Carried.

Mr. Doern—Under Markinf of Papers, Clause (f), "Information supplied to the office of the Register will be for record purposes only, and will indicate the average standing of candidates in both written and practical work."

Moved by Mr. Stirling, seconded by Mr. Nadeau, that section be approved. Carried.

Mr. Doern—Clause (g), "Films submitted for the purpose of examination will not be returned."

Moved by Mr. Smith, seconded by Miss Steski, that section be approved. Carried.

Mr. Doern—Clause (h), "Results of examinations forwarded to the secretaries of the Member-Societies and to the Editor of The Focal Spot as in (a) above, shall be confined to the simple statement to the effect that a candidate has passed the examination, or has failed in certain subjects, or has failed the whole examination.'

Moved by Mr. Welch, seconded by Mr. Johnston, that section be approved. Carried.

Mr. Doern—Clause (i), "The decision of the Board of Examiners as to the result of any examination, and all examinations, will be accepted as final, and no correspondence shall be entertained concerning the marks obtained by any candidate."

The President—You are to be advised that the Chairman of the Board of Examiners has complained of being almost flooded out by enquiries about this relative to the results of examinations. He feels that it is unnecessary and that he ought not to be so bothered. Having received that explanation, what is your pleasure?

It was moved by Mr. Stirling, seconded by Miss Shaw, that the section be adopted. Approved.

Mr. Doern—Under Permissible Rewrites, Clause (a), "A student failing the whole examination may rewrite at the second subsequent examination."

Moved by Mr. Smith, seconded by Mr. Parsons, that the section be approved. Carried.

Mr. Doern—Under Permissible Rewrites, Clause (b), "A student failing in one or two subjects may rewrite those subjects at the next subsequent examination."

It was moved by Mr. Gore, seconded by Mr. Stirling that the section be adopted. Approved.

Mr. Doern—Under Permissible Rewrites, Clause (c), "A student failing the whole or any part of the examination on three occasions shall not be permitted to attempt further rewrites."

The President—It was felt that some limit ought to be set as to the number of times a student might attempt examinations. In addition, it occurred to both the Board of Examiners and also the Board of Directors, that there might be some exceptional cases. This requires careful consideration. Hence, the qualifying section, which follows it. What is your reaction with regard to the student failing three occasions as set out in this section (c)?

It was moved by Miss Shaw, seconded by Mr. Smith, that the section be adopted. Approved.

Mr. Doern—Under Permissible Rewrites, Clause (d), "Notwithstanding the provisions of the above paragraps, the Board of Ex-

aminers may, in special circumstances and at the discretion of the Board, permit any candidate to rewrite."

It was moved by Mr. Smith, seconded by Mr. Bartlett, that the section be adopted. Approved.

Mr. Doern—Under Examination Fees, Clause (a), "The examination fee of $5.00 shall entitle the applicants to write the initial examination, or further rewrites of the whole examination."

Moved by Mr. Connor, seconded by Miss Steski, that the section be adopted. Approved.

Mr. Doern—Under Examination Fees, Clause (b), "The Fee for a rewrite on one or two subjects shall be $3.00, and shall accompany the application to rewrite."

Moved by Miss Creelman, seconded by Mr. Stirling, that the section be adopted. Approved.

Mr. Doern—Under Examination Fees, (Clause (c), "The Secretaries of Member-Societies will forward 50% of all such examination fees to the Secretary-Treasurer of the C.S.R.T. immediately following the receipt by the Member-Society of the approval of the candidates by the Board of Examiners."

It was moved by Mr. Parsons, seconded by Mr. Ferry, that this section be approved. Carried.

Mr. Doern—Expenses in connection with examinations, Clause (a), "The Secretaries of Member-Societies and the Secretary of the Board of Examiners shall keep a record of expenses incurred in connection with examinations and shall submit same to the Secretary-Treasurer of the C.S.R.T. for payment."

The President—Please read the next section.

Mr. Doern—Expenses in connection with examinations, Clause (b), "Such expenses may include postage, telephone, telegraph or express, but shall not include transportation of candidates, or examining officers, nor the cost of films used as part of the examination."

The President—You have heard the first section, and the following qualifying section. We will deal with them separately. The first section requires Secretaries of Member-Societies to keep a record of the expenses incurred in connection with examinations and to submit same to the Secretary-Treasurer of the C.S.R.T., etc.

It was moved by Mr. Connor, seconded by Mr. Smith, that the section be adopted. Approved.

The President—Now what comprises legitimate expenses? Postage, telephone, telegraph, express, but not transportation of candidates, examining officers nor the cost of films used.

It was moved by Mr. Stirling, seconded by Mr. Parsons, that the section be approved. Carried.

The President—You now have in existence a complete set of rules and regulations governing the conduct of your examinations. As a matter of fact, this whole thing has been printed for you and has been published in The Focal Spot so there ought not to be any confusion from now on as to what procedure is necessary. There will be, from time to time, amendments required. It is your privilege to bring up resolutions, and it is also the privilege of the Board of Examiners and the Board of Directors to present anything that might form the foundation stone of your rules and regulations. This is the first of many to be compiled by your Committee on Laws and I feel that they are to be congratulated on a job well done. (Applause.)

This ends the special general meeting.

## Third Regular Session of the Fifth General Meeting, Friday Afternoon, September 5th, 1947

The President—It is now 3.45. Shall we use the time at our disposal for a general business session?

(This was approved by show of hands.)

The most important matters are the resolutions, which have been submitted for you to think about and to deal with. I would ask Mr. Welch to assist the Chair in presenting these resolutions to you.

Mr. Welch—I have, Mr. President, a few extra copies of the resolutions. The Official Delegates were all sent copies of the resolutions up to certain dates. The first went out in July and the second on the 19th of August. There have been one or two received by the Resolutions Committee since

that date. If there are any of the members present who would like any copies, there are still a few left that you could have. (Reads Resolution No. 1.) 'Whereas, due to continued delay in candidates obtaining their examination results with the result that sometimes their standing in a department, or hospital, is jeopardized, plus the fact that the American Registry is much quicker with their results, which encourages Canadian technicians to write the American R.T. and this in turn, raising complications as to Canadian standing, therefore, be it resolved that the C.S.R.T. with the Board of Examiners establish an Eastern and a Western regional marking board, the papers to continue to be set by the Examining Board and that a marking system be drafted and used by both Boards."

The President—I would recommend that these resolutions be dealt with by breaking down the particulars. There are three distinct questions involved here.

1. That the C.S.R.T. with the Board of Examiners establish an Eastern and Western Board respectively for marking papers.

2. The papers to continue to be set by the Board of Examiners.

3. That a marking system be drafted and used by both Boards.

These are the points upon which I will ask you to express an opinion.

Mr. Jackson—You all realize that it takes such a long time for the papers to be marked and the results returned. A lot of complaints arise on this account and it is difficult to say where the blame lies, so at the meeting in Regina this spring I suggested this motion with the idea that papers will continue to be set up as they are now, but to ease the marking of the papers we would help them out. On Eastern examinations we would inspect their films and the Western films would go to the East.

Mr. Gore—Do you intend that there should be a special examiner for each Board?

Mr. Jackson—You would have to create a Western marking board and the other Radiologists would continue to do as they have done, but it will require a set-up in Western Canada of three men detailed to make the papers.

The President—Would it be your intention that a Western Board be set up by the Member-Societies, or be set up by our present Board of Examiners, or by the Board of Directors?

Mr. Jackson—I think if we can pass this motion, we do not care who set it up, so long as it is done.

There was considerable further discussion terminated by a motion by Mr. Doern, seconded by Mr. Parsons, that a committee of three be set up to co-operate with the Board of Examiners and the Board of Directors in an effort to set up these accessory marking boards. Carried.

Mr. Welch—Resolution No. 2—"Be it resolved that all films submitted by students in accordance with examination papers be accompanied by an affidavit to be signed by the Radiologist or Superintendent of the hospital or institution where the student is in training."

The President—You have heard the resolution. What is your bleasure?

It was moved by Miss Shaw, seconded by Mr. Perry, that the resolution be adopted. After considerable discussion, the resolution was defeated.

Mr. Welch—Resolution No. 3—"Be it resolved that it was considered desirable that x-ray technicians should have a membership pin and/or a badge such as a monogram as a distinguishing mark of their profession. The possibility of a special cap as part of the uniform for female technicians should also be considered."

The President—The matter of a pin was dealt with last year and a committee has been formed. You suggest that there should be a cap and that it should be supplied by the Canadian organization. There are, therefore, two things to think about. First of all, are you agreed that a special cap as part of the uniform for female technicians is necessary or desirable?

On a show of hands the resolution was defeated.

Mr. Welch—Resolution No. 4—"Whereas there is some question among the membership as to the eligibility of technicians for membership in the C.S.R.T. who are members of the British or American Societies, therefore, be it resolved that fully qualified

members of the British Society of Radiographers who come to Canada to accept employment be admitted as regular members of the C.S.R.T. without further examination."

The President—You have heard the resolution; the sense of it must be quite obvious to you. What is your pleasure?

After considerable discussion the resolution was read once more, put to the vote and defeated.

Mr. Welch—Resolution No. 5—"Be it resolved that fully qualified members of the American Registry, having obtained such registration following training and employment in the United States of America, and who come to Canada to accept employment, be admitted to membership in the C.S.R.T. without further examination."

The President—It follows the same idea as the last.

(The resolution was defeated.)

Mr. Welch—Resolution No. 6—"Be it resolved that all technichians who on or before July 1944 have written and passed examinations approved of by the Board of Directors, and/or, the Board of Examiners, C.S.R.T., and who have remained in good standing with a Member-Society since passing such examinations, will be admitted into the C.S.R.T. without further examination provided such applications are received before December 31st, 1947."

The President—I should point out to the meeting that it appears necessary to deal with such a resolution because you have no official statement governing the attempt to organize such individuals. What is your pleasure?

Following considerable discussion the date to be inserted into the resolution was approved as July 1944.

The President—You have agreed to that date, July 1944. The suggestion embodied in the resolution is that applicants be received into membership before December 1947. What is your reaction?

After discussion it was moved by Mr. Parsons, seconded by Mr. Doern, that it be changed to December 1948. Approved.

The President—We have set the dates. You now have the full sense of the resolution. (Rereads resolution, including the approved dates.)

It was moved by Mr. Parsons, seconded by Miss Creelman, that the resolution be adopted as read. Carried.

Mr. Welch—The next resolution is also from British Columbia and reads, "January 1st, 1948." This will have to conform to the date of the previous resolution and would then read, "January 1st, 1949."

Mr. Stirling—It is quite agreeable to me, Mr. Chairman.

The President—Resolution No. 7—"Be it resolved that on and after January 1st, 1949, all technicians domiciled, trained and/or employed in Canada desiring to obtain regular membership in the C.S.R.T. will be required to pass examinations as set from time to time by the Board of Examiners, C.S.R.T."

It was moved and seconded that the above resolution be adopted as read. Approved.

Miss Shaw—(Referring to the committee concerning marking boards) — When we agreed that we would appoint a committee of three we did not state who would appoint this committee.

The President—This is a matter which concerns those present and the Chair would suggest that you bring this to the attention of the next session in the form of a resolution. (Adjournment followed).

## Fourth Regular Session of the Fifth General Meeting,

### Saturday Morning, September 6th, 1947

The President—One of the first things to be dealt with has to do with the appointment of a committee to undertake the work of finding out just how we propose to set up the regional marking boards. Someone was to report back to this meeting with a resolution or motion, which would assist us to come to a conclusion. Is there a motion available?

Mr. Stirling—What kind of a motion?

The President—It appears to be the concensus of opinion that since no one knows just how the regional marking boards are to be set up, that a committee be appointed to investigate and collaborate with the Board of Examiners and the Board of Directors. How is that committee to be selected, or

appointed? or how is it going to be brought into being?

It was moved by Mr. Stirling, seconded by Mr. Parsons, that the Board of Directors appoint a committee of three who are empowered to collaborate with the Board of Examiners and the Board of Directors relative to setting up those regional marking boards. Carried.

Mr. Welch—Resolution No. 8—"Whereas it is considered to be in the interests of the members of the C.S.R.T. that we have an insurance or annunity scheme for the benefit of such members, be it therefore resolved that a committee be formed to investigate some such scheme, said committee to present its report at the next annual meeting."

President—That resolution is sponsored by Mr. Welch. It does not state that any action be taken, but just that a committee be formed to investigate such a scheme and report at the next annual meeting.

Mr. Welch—This resolution was on the table last year but no action was taken on it in any form at all.

President—What do you mean?

Mr. Welch—It was on the agenda but no action was taken on it. Since then there have been some inquiries made relative to this particular subject and therefore it was suggested that a committee be formed to go into the various schemes which have been discussed informally. Exhaustive enquiries would have to be made before any decision could be arrived at by the Convention. It was my idea to have this particular information obtained and bring back the result the next time we met.

It was moved by Mr. Stirling, seconded by Mr. Johnson, that a committee of three be appointed by the Board of Directors. Approved.

Mr. Welch—Resolution No. 9—"Whereas at present there is no provision made for membership in the C.S.R.T. for technicians doing x-ray therapy only, therefore be it resolved that candidates be permitted to sit for an examination in x-ray therapy only, and if successful, receive certification as registered technician therapists, or such other designation as may be deemed suitable."

Considerable discussion followed the presentation of this resolution which discussion was terminated by the Chairman referring the resolution back to the Resolutions Committee for further study. This action was approved by show of hands.

Mr. Welch—Resolution No. 11—"That the Annual General Meeting be held not later than the last week in June of each year."

After being duly moved and seconded this motion was approved.

Mr. Welch—"Be it resolved that the roster of members of the C.S.R.T. be printed in the Focal Spot with the year of joining the C.S.R.T."

There was further discussion which terminated with the approval of the following resolution: "That a roster of the members of the C.S.R.T. be printed annually in The Focal Spot with the year of joining the C.S.R.T."

Mr. Welch—Any further resolutions from the Resolutions Committee?

Mr. Doern—Regarding the committee on examinations, which was mentioned yesterday, there was one resolution that I should like to have in connection with the date of examinations. As it now stands, the examinations shall be held the first Friday of May and November of each year. Now there are circumstances under which there are such things as emergencies. There may be someone who could not write on that day. We have nothing on record that gives any leniency. I think if something specific was laid down, that those responsible would be able to tell anyone enquiring what could be done. In the case of an emergency, this could be arranged as a group and not as individuals, that in the case of an emergency they write the exams one day prior or one day after those dates, but under no circumstances shall any greater leaway be exercised without permission from the Board of Examiners.

Following further discussion, it was moved by Mr. Doern, seconded by Mr. Gore, "Excebt that at the discretion of the executive officers of the Member-Society involved, such examinations may be held on the previous day, or the following day." This was approved.

Meeting then adjourned.

As the result of election of officers, Mr. Simkins then took over the Presidency, and Mr. Hunt the Secretaryship.

Mr. Simkins—Mr. Hunt has been 100% in the Chair. I am hoping that I will be 75% or 80%. On this marking I will be more than satisfied.

Mr. Welch—There is the question of place of convention for 1948.

Mr. Simkins—I think this has been given some consideration; that it be held in the province of the President, and the President resides in Quebec. Therefore the annual meeting of 1948 will be held in the Province of Quebec.

Mr. Cartwright—It has been mentioned that it should not be restricted to the province of the President. I think it is a matter which should be considered. (Discussion).

The Secretary—In order to permit discussion, I would move that the place of the next annual meeting be decided annually. (Discussion).

Moved by Dr. Singleton, seconded by Mr. Doern, that the place of the next annual meeting be decided at each Annual General Meeting, and that it be placed on the Agenda of the Annual General Meeting.

Mr. Simkins—You have heard the motion, may I have your reaction?

Following further discussion, the motion was put and approved.

Meeting then adjourned.

The General Business Sesssion was resumed on Saturday afternoon with the President, Mr. Simkins, presiding.

It was moved by Mr. Welch, seconded by Miss Creelman that a vote of appreciation be extended to the Saskatchewan Member-Society for the manner in which they have conducted this annual convention. Approved.

It was moved by Mrs. McIntyre, seconded by Mr. Doern, that a vote of thanks be tendered to the officials of the Canadian Association of Radiologists, the Board of Directors, the Board of Examiners, the members of committees generally, and the Associate Directors for the work they have done during the year. Approved.

Moved by Mr. Smith, seconded by Mr. Gore, that our official emblem be the design which appears on The Focal Spot and official stationery and the same design be used for our pin.

An interim report was received from the committee responsible for the preparation of lapel pins, which prompted the following question from the President.

Mr. Simkins—Will you make known your pleasure with regard to the disposition of the report given by the committee on pins?

It was moved by Mr. Hunt, and seconded that the committee's report be noted in the record.

In explanation of the above, it should be stated that this committee is still functioning, that they have much work to do, and they are expected to report to the Board of Directors when their work is finished.

An Official Delegate—I have been asked to bring back a reply on the question of vacations. It is felt that the C.S.R.T. should contact the D.V.A. stressing international law.

It was moved by Mr. Johnston, seconded by Miss Creelman, that the secretary be empowered to draft a letter drawing the attention of the Dominion Government to the International law on working conditions of radiological technicians, and that he submit that letter to the technicians' committee of the Association of Radiologists. Approved.

Meeting adjourned.

## An Executive Meeting Held on Saturday Afternoon, September 6th, 1947

Present were Dr. Singleton, Mr. Simkins, Mr. Hunt, Mr. Welch, Mr. Cartwright, Mr. Doern, and all the Official Delegates, except that Mrs. McIntyre acted for Miss Shaw at this particular meeting.

Mr. Simkins—I would like to bring to your attention a question which has been referred to the Board regarding affiliation with New Zealand. (Reads correspondence on the subject).

The Secretary—The President requested some advice concerning this and I suggested that it might be presented to you because of what has happened to those resolutions dealing with American and British technicians. Those resolutions were defeated. That must have a strong bearing on this matter. I move that this be referred to a committee for study and that they report to the Board with a recommendation as to necessary action. (Motion seconded by Dr. Singleton).

Following discussion the motion was repeated by the President and approved.

Mr. Simkins—Action regarding the appointment of an auditor for the year 1947-48 for consideration.

It was moved by Mr. Welch, seconded by Mr. Stirling, that the auditor be in the same city as the Secretary-Treasurer. Approved.

Mr. Simkins—With regard to the usual honorarium granted to the retiring secretary for your opinion and comments.

It was moved by Mr. Stirling, seconded by Mr. Parsons, that the usual honorarium of $75.00 be granted. Approved.

Mr. Simkins—We will hear from the Chairman of the committee appointed to negotiate with the Canadian Medical Association and the Canadian Association of Radiologists as regards training facilities.

Here followed the report on Student Training read by Dr. Singleton.

Following the presentation of the above report, Dr. Singleton elaborated on the details of an analysis drawn up by Dr. E. A. Petrie, which analysis was based on the replies received by him in response to a questionaire which he had prepared for Dominion-wide circulation among the Radiologists. Dr. Singleton also brought to the attention of the meeting the work being undertaken by Dr. Desmond T. Burke at Christie Street Hospital, Toronto.

It was moved by Mr. Welch, seconded by Mr. Parsons, that Dr. Burke be requested by the Board of Directors to act with our committee for the training of x-ray technicians. Approved.

It was moved by Dr. Singleton, seconded by Miss Creelman, that Dr. A. E. Perry be also requested to serve on that committee. Approved.

It was moved by Dr. Singleton, seconded by Mr. Stirling, that the committee be authorized to continue their work for another year. Carried.

It was moved by Mr. Stirling, seconded by Mr. Hunt, that the committee be congratulated for their extensive report. Approved.

Mr. Welch requested the Official Delegates to carry an invitation back to their respective Societies to contact him more frequently concerning their problems, and Mr. Hunt requested that copies of correspondence be sent to all persons involved in any particular problem.

The executive meeting then adjourned.

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## Final Meeting of Board of Directors, September 7th, 1947

A final meeting of the Board of Directors was held on Sunday morning, September 7th, in the President's suite, at 10.15 a.m.

Among the important decisions reached at that meeting, were the following:

The Chairman of the Board of Examiners (or his representative), and the Chairman of the Board of Directors of The Focal Spot (or his representative), have the privilege of attending all meetings of the Board of Directors, C.S.R.T., for the purpose of entering into discussions, etc., etc. But they are not elected or appointed to actual membership on the Board.

Mr. Percy Ghent was appointed to be the Society's Historian. (Permanent). Mr. Roy E. Gore, Winnipeg, was appointed to the Resolutions Committee for a three-year term. Mr. C. J. Bodle, of Winnipeg, was appointed to the Board of Examiners for a three-year term. Mr. Cartwright and Mr. Fredericks were appointed a committee to deal with the request from New Zealand regarding affiliation.

# News Items from the Provinces

(continued from page 5)

## SASKATCHEWAN SOCIETY OF X-RAY TECHNICIANS

### REGINA

Monday, November 10th, was the date of the second monthly meeting of the Regina group. Chairman James Connell, R.T., opened the proceedings with a word of welcome to visitors, Syd Johnston, of Moose Jaw, and Mr. Flowers, of the Victor X-Ray Co. The business of the meeting was devoted in part to the election of 1st and 2nd Vice-Presidents. Mr. Mel Brown and Mr. P. E. Hunt, R.T., were chosen to fill the ofices. Due to interest shown by Moose Jaw technicians in Regina activities and the annual exchange of meetings, one a year being held in Moose Jaw, it was decided to appoint a representative from that city and Syd Johnston, R.T., accepted the post. A report on the Dominion Convention was presented by Mr. Johnston. The students in particular were interested in a letter from Dr. Petrie which was read by Mr. Hunt. Mr. Flowers of the Victor X-Ray Co., gave a short lecture and showed a film on "Principles of Electricity." The Sisters of the Grey Nuns, who were our hosts for the evening, served a lunch which was much enjoyed by all.

The December meeting of the Regina Branch was held at the Grey Nuns' Hospital on December 10th, Mr. James Connell presiding.

Miss MacDougall, R.N., R.T., Secretary-Treasurer of the Regina group, tendered her resignation of that office. Miss MacDougall has accepted a position at Kitchener, Ontario. Mr. Connell thanked Miss MacDougall on behalf of the Regina section for the valuable talents she contributed to the group. It was decided to postpone the election of a new Secretary until the next meting. Rev. Sr. Hopcraft presented a suggestion that the Regina group start a series of practical demonstrations of difficult Radiographic procedures. It was decided to carry out a series of "clinics," one at each forthcoming meeting; the details of arrangement are in the hands of the executive. The technical part of the meeting was started with a paper on "The Care of Equipment" presented by Mr. R. S. Connell of the Picker X-Ray Co. Mr. Connell passed out a generous helping of tips on maintaining the technicians' tools and the important signs to heed when deciding to call in a service man. Grey Nuns' Radiologist, Dr. B. Black, gave an interesting lecture on "Radio-Active Isotopes." Dr. A. E. Perry, who recently accepted the Honourary Presidency of the Regina group, spoke briefly, extending his thanks for the esteem of the branch.

The next meeting is to be held in the Regina General Hospital.

### SASKATOON

Twenty-two technicians attended the December 19th meeting at Saskatoon City Hospital.

Miss Ivy Cowan, Chairman, introduced the guest speaker of the evening, Dr. A. Becker of the Cancer Clinic. Dr. Becker spoke on "The Application of Radium in Cancer Cases." The technicians were given many pointers on this interesting topic. It is hoped that Dr. Becker will be able to present another paper this season.

Mr. George Derrick, R.T., presented his second lecture on anatomy. Mr. Derrick has devoted a considerable amount of time in preparing the series and the results are eminently successful. Both experienced and student technicians are getting marked benefit from the lectures.

A delightful chocolate cake was served by Mr. George Jackson, R.T.—in an allegorical form. The comparison between "Basic Factors" and cake was deftly developed. This novel way of giving a paper was approved with chuckles of amusement; the point of the paper was etched sharply by its humour.

The evening concluded with a round-table talk on photography which developed enough momentum to last an hour. A lunch, provided by the hospital management, was served by the house technicians.

Despite a "splendid" blizzard, a sizeable number of technicians attended the January meeting at Saskatoon Sanatorium.

Miss Ivy Cowan was Chairman for the evening. Miss Cowan carried out her duties with efficiency and charm.

The program began with Mr. George Derrick's third lecture on anatomy. The second speaker, Miss Hazel Helem, R.T., presented a paper on Sanatorium technical work. The paper was accompanied by an excellent demonstration of films. "The Origin of Electrical Terms" was the title of a paper by Miss Marie Perron, R.T.; a short biographical sketch of the scientists after whom the terms were named gave added interest to the origin. The evening ended with lunch and a round-table talk on dental radiography.

## SCATTERED RAYS

(Saskatchewan's Vox Populi

Quip of the week—"You will have to please excuse me, I don't even speak English as well as you do" (Chap must have been reading this column).

In the last Focal Spot issue we reported Miss Kay Neufeld's engagement; she has since that time become Mrs. Gjornes. Kay's husband is with the Picker X-Ray Co. Best wishes to them.

We hear that Perc. Hunt's students had quite a bang-up graduation party . . .!

Warren Dickey visited Regina during the Christmas holidays; he's in charge of the X-ray at Kerrobert, and liking it.

Miss Marg. Murphy has been all smiles since that visit from a Saskatchewan personality.

Saskatoon's busy group have contrived an idea for developing a source of always-appreciated cash for the funds. George Jackson has made arrrangement with the City Hospital whereby the local technicians have been given permission to sort out long standing files of films and use the proceeds from their sale for Society funds. It is hoped to realize enough money to purchase a mimeograph machine. Good ideas spread and the Saskatoon Technicians are hoping to put the scheme on a provincial basis. Members will be contacted with a circular letter outlining the scheme.

Leonard Stein, Union Hospital, Rosetown, and Evelyn Harburn of Saskatoon City Hospital were married Christmas Eve. Congratulations.

The Society also wishes to extend congratulations to Mr. Thomas Jacques, R.T., who has announced his forthcoming marriage to Yvonne Sampson of Saskatoon.

The stork paid a call at Kindersley Union Hospital and presented a very welcome very new daughter for Jack and Violet Fahr. Best wishes from the Society and may we hope for another Fahr on the registry in about twenty years.

Ode to a Load

Caudad, cehpelad, prone and supine,
Central ray, scattered beams,
Oh, what a time!
Is atlas to axis as income to tax is?
Zygoma, sarcoma, ischium, rib;
Is the acetabulum next femur or tib?
All this must be known, you see,
Before you can say, "Joe Doakes—R.T."

MELVIN R. BROWN,
Sub-Editor.

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# "Yours Radiologically"

With apologies to Gilbert & Sullivan's

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Lyrics by Peggy Quint Dalphond

## CAST

Radiologist ..... F. Bolton
Senior Technician ..... J. Allan
First Student ..... H. Welch
Second Student ..... F. Shaw
Third Student ..... M. MacDonald
Patient ..... P. Dalphond

Music, Mrs. J. Welch, Piano

## INTRODUCTION

"If You Want to Know Who We Are"

If you want to know who we are
Stick around and we will tell,
Our attitude's to amuse
And in no way to repel.

We all of us represent
The great experiment,
And we shall prove x-ray
Is probably here to stay.

You may think our work is pleasure,
And simply done with ease,
But we've trouble in heaping measure
And never have time for teas.

We all of us represent
The great experiment,
And we shall prove x-ray
Is probably here to stay.

## STUDENTS

"Three Little Students"

Three little students gay are we,
Fresh from a course in radiography,
There's nothing we can't do or be,
We are as smart as smart you see.

We never leave the marker off,
We don't criticize or scoff,
To us we hope your caps you'll doff,
Three little students gay are we.

One little student's top hair is thin,
Don't ever think his mind is dim;
You should see him with a skin full of gin,
Three little students gay are we.

One little student wore Air Force Blue,
Her hair was neat, her uniform, too;
To look at her now, was it ever true?
Three little students gay are we.

One little student was long and lean,
Visage grim and temperament mean,
She may not know it but she's really green,
Three little students gay are we.

## SENIOR TECHNICIAN

Sr. Tech.:
Student, simple student,
As you know, I'm a registered technician.
Stud.:
Tech, dear old tech — we know
We've a dull intellect
And we're not kiddin'.
Sr. Tech.:
My morals are nearly elastic,
My temper is really most drastic,
So students you'd better beware
For I'll paddle you for fair,
And you'll stay in the darkroom all night.
Stud.:
R.T. I am proud to be
One of the dogs that you make out of me.
Sr. Tech.:
Yes, you can bet
There's still an old one with a greater intellect
And that the radiologist.
Stud.:
He's a fussin' and sortin' and rejectin'——
Sr. Tech.:
You'd think he was runnin' the Nobel election.
All:
So we're in the fixer too,
And does this apply to you
As we take and develop all day?

## STUDENTS

"'Tis Black"

In the darkroom alone by the fixer she sighs,
'Tis black, 'tis black, 'tis black!
Diluting the mixture with tears from her eyes,
'Tis black, 'tis black, 'tis black!
We said to her wonderingly, "Why do you yell?
Can it not be reduced before you catch hell?"
'Tis black, 'tis black, 'tis black!

She sobbed and she sighed and pulled out her hair,
'Tis black, 'tis black, 'tis black!
Alack and alas! to show this I don't dare,
'Tis black, 'tis black, 'tis black!

(Presented by the Calgary Radiographic "Choral" Society at their annual Christmas Party, Dec. 17th, 1947.)

We feel quite sure you have reason to sigh,
But don't be discouraged, don't constantly cry,
For there's much work to do before you can die.
'Tis black, 'tis black, 'tis black!

### SENIOR TECHNICIAN

Behold! Here comes our radiologist!
He comes here in the morning and in the afternoon,
And if you ask him why the hell he does it,
He does it 'cause he has to, not 'cause he loves us all.

Far away, far away,
We wish him and his office.
Far, far away.

### RADIOLOGIST

I am here to say
That I hope some day
A technician who's worthy I'll see.
In the meantime I'll make
A list of the fakes
That I think technicians they be—

There's the gal who's so deft
She puts a Right for a Left
Each time her chance does appear,
And the guy who will lay A.P. for P.A.,
And claims that the slip wasn't clear.

There are the Tech's who crack jokes
As they grab for their smokes
And ask for a light for the same,
And they'll try to look sad
When their films are bad,
And to others they'll give all the blame.

If there's to be praise,
They're braggin' for days
Of some films that they didn't take,
And then try to play dumb
When there's "Grid" lines on some
Of the abdomen films they make.

Now to size it all up
I'm in a hell of a rut
With technicians and service men, too,
They will drive me to booze
And my mind I will lose,
Oh! My life is one horrible stew.

### PATIENT

"A Wandering Patient I"

A wandering patient I,
A thing of mirth and derision,
Shoved here and there with precision
And nobody will sympathize.

My aches and pains are many,
My chances are not worth a penny,
Of tact my relatives haven't any.
Like vultures they all hang around,
Like vultures they all hang around.

### RADIOLOGIST

(With Patient)

So you're going to drink barium, yum-yum!
No breakfast, not any!
We'll take pictures, yes, many!
At 9.30 you'd better come, come, come!
We'll start you on your G.I.T.

No I'm not drinking barium, yum-yum!
I'd rather eat cake
And have a big ache!
You must think that I'm pretty dumb, dumb, dumb!
I'll pose for no pictures of me.

### FINALE

Rad.:
Pity me, for I am confused,
There's lots who make me happy,
(Puts arm around girl, kisses her),
Though at times I've been refused.

Sr. Tech.:
These all of them represent
The reason I'm not content;
Because of straying x-rays
Posterity will never me praise.

Stud.:
So you think our work is pleasure
(Cuddle up to H.W.)
And may be done with ease,
And since we've taken their measure
We often have time for teas.
Oh, we often have time for teas.
Yes, we often have time for teas,
And since we have taken their measure
We often have time for teas.

Pat.:
Now the unpleasant ordeal is over
And the grave no longer leers;
My relatives no longer need hover,
My insurance they won't get for years,
My insurance they won't get for years.
Now the unpleasant ordeal's over,
My insurance they won't get for years.

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